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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 MAY 01 New CAS web site launched
NEWS 3 MAY 08 CA/Caplus Indian patent publication number format defined
NEWS 4 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 6 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 7 MAY 21 CA/Caplus enhanced with additional kind codes for German patents
NEWS 8 MAY 22 CA/Caplus enhanced with IPC reclassification in Japanese patents
NEWS 9 JUN 27 CA/Caplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10 JUN 29 STN Viewer now available
NEWS 11 JUN 29 STN Express, Version 8.2, now available
NEWS 12 JUL 02 LEMBASE coverage updated
NEWS 13 JUL 02 LMEDLINE coverage updated
NEWS 14 JUL 02 SCISEARCH enhanced with complete author names
NEWS 15 JUL 02 CHEMCATS accession numbers revised
NEWS 16 JUL 02 CA/Caplus enhanced with utility model patents from China
NEWS 17 JUL 16 Caplus enhanced with French and German abstracts
NEWS 18 JUL 18 CA/Caplus patent coverage enhanced
NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20 JUL 30 USGENE now available on STN
NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 22 AUG 06 BEILSTEIN updated with new compounds
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 24 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents
NEWS 25 AUG 20 CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS 26 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 27 AUG 27 USPATOLD now available on STN
NEWS 28 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 11:49:07 ON 05 SEP 2007

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:49:20 ON 05 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 SEP 2007 HIGHEST RN 946048-22-2
DICTIONARY FILE UPDATES: 4 SEP 2007 HIGHEST RN 946048-22-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

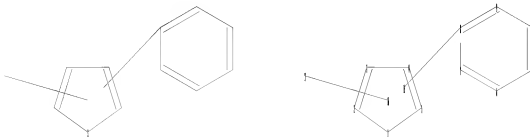
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10540330\6.str



ring nodes :
1 2 3 4 5 6 7 8 9 10 11
ring/chain nodes :
13
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11
exact bonds :
1-2 1-5 2-3 3-4 4-5
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11
isolated ring systems :
containing 1 :

G1:Cb,Ak

Match level :

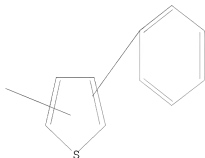
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 13:CLASS 15:CLASS 16:Atom

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 11:49:35 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 58873 TO ITERATE

3.4% PROCESSED 2000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1162995 TO 1191925

PROJECTED ANSWERS: 74549 TO 82053

L2 50 SEA SSS SAM L1

=>

Uploading C:\Program Files\Stnexp\Queries\10540330\7.str



```

chain nodes :
12 13 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19
chain bonds :
12-13 13-14
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 14-15 14-19 15-16
16-17 17-18 18-19
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 12-13 13-14
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11 14-15 14-19 15-16 16-17 17-18 18-19

```

G1:Cb,Ak

Match level :

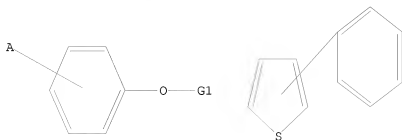
```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 21:Atom 23:Atom

```

L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR



G1 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l3
SAMPLE SEARCH INITIATED 11:51:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 36831 TO ITERATE

5.4% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

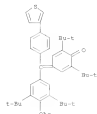
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 725152 TO 748088
PROJECTED ANSWERS: 16945 TO 20621

L4 50 SEA SSS SAM L3

=> d scan

14 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 2,5-Cyclohexadiene-3-one, 4-[[4-(methoxycarbonyl)-2,5-bis(1,1-dimethylethyl)phenyl][4-(3-thienyl)phenyl]methylene]-2,6-bis(1,1-dimethylethyl)-, polymer with 3-methylthiourea (PC5)
 MF [C41 H50 O3 S . C10 H16 S]x
 CI 1M5

CH 1

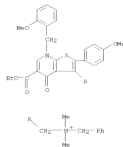


CH 2



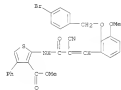
HOW MANY MORE ANSWERS DO YOU WISH TO SCANT? (1) 11

14 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Thieno[2,3-b]pyridine-3-methanamine, 5-(ethoxycarbonyl)-4,7-dihydro-2-(4-methoxyphenyl)-7-[1,2-methoxyphenyl]methyl]-6,N-dimethyl-4-oxo-6-(phenylmethyl)- (PC1)
 MF C26 H27 NO5
 CI 0M



HOW MANY MORE ANSWERS DO YOU WISH TO SCANT? (1) 11

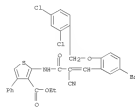
14 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 3-Thiophenecarboxylic acid, 2-[[3-[2-[[4-bromophenyl]methoxy]-3-methoxyphenyl]-5-cyano-1-oxo-2-propen-1-yl]amino]-4-phenyl-, methyl ester
 MF C20 H23 Br N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCANT? (1) 11

14 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 3-Thiophenecarboxylic acid, 2-[[3-[5-bromo-2-[[2,4-dichlorophenyl]methoxy]phenyl]-2-cyano-1-oxo-2-propen-1-yl]amino]-4-phenyl-, ethyl ester
 MF C30 H21 Br Cl2 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCANT? (1) 0

=> d his

(FILE 'HOME' ENTERED AT 11:49:07 ON 05 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:49:20 ON 05 SEP 2007

L1 STRUCTURE UPLOADED
L2 50 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3

=> s l3 full

FULL SEARCH INITIATED 11:52:01 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 741628 TO ITERATE

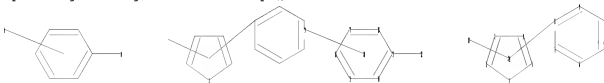
100.0% PROCESSED 741628 ITERATIONS
SEARCH TIME: 00.00.08

21110 ANSWERS

L5 21110 SEA SSS FUL L3

=>

Uploading C:\Program Files\Stnexp\Queries\10540330\8.str



chain nodes :
12 19 24
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18
chain bonds :
12-13
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
12-13
exact bonds :
1-2 1-5 2-3 3-4 4-5
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 :

G1:Cb,Ak

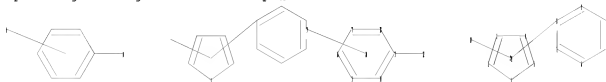
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 22:Atom 24:CLASS 25:Atom

L6 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10540330\9.str



```

chain nodes :
12 19
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18
ring/chain nodes :
24
chain bonds :
12-13
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
12-13
exact bonds :
1-2 1-5 2-3 3-4 4-5
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 :

```

G1:Cb,Ak

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 22:Atom 24:CLASS 25:Atom

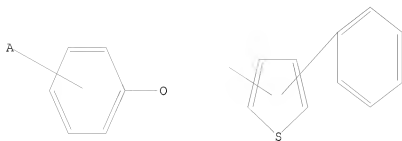
```

L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR



G1 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 17 full sub=L5

FULL SUBSET SEARCH INITIATED 11:53:36 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 17105 TO ITERATE

100.0% PROCESSED 17105 ITERATIONS

12969 ANSWERS

SEARCH TIME: 00.00.01

L8 12969 SEA SUB=L5 SSS FUL L7

=>

Uploading C:\Program Files\Stnexp\Queries\10540330\10.str



chain nodes :

12 19 26

ring nodes :

```

1  2  3  4  5  6  7  8  9  10  11  13  14  15  16  17  18
ring/chain nodes :
24
chain bonds :
12-13 12-26
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
12-13 12-26
exact bonds :
1-2 1-5 2-3 3-4 4-5
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 : 6 : 13 :

```

G1:Cb,Ak

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 22:Atom 24:CLASS 25:Atom 26:CLASS

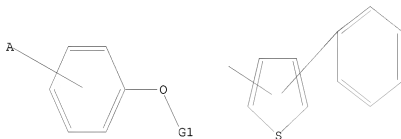
```

L9 STRUCTURE UPLOADED

=> d

L9 HAS NO ANSWERS

L9 STR



G1 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 19 full sub=L8

FULL SUBSET SEARCH INITIATED 11:55:28 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 12969 TO ITERATE

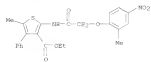
100.0% PROCESSED 12969 ITERATIONS
SEARCH TIME: 00.00.01

12463 ANSWERS

L10 12463 SEA SUB=L8 SSS FUL L9

=> d scan

LIG 12463 ANIMALS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 3-Thiophenemethylacetic acid, 5-methyl-2-[[2-[2-methyl-4-
 nitrophenoxy]acetyl]amino]-6-phenyl-, ethyl ester
 MF C22 H22 NO 6 2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE NUMBERS DO YOU WISH TO SCANT (1) 0

=>

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```

chain nodes :
12 19 23 27 28 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18
ring/chain nodes :
24
chain bonds :
2-27 3-28 4-30 5-7 12-13 12-23
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
2-27 3-28 4-30 12-13 12-23
exact bonds :
1-2 1-5 2-3 3-4 4-5 5-7
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 : 6 : 13 :
```

G1:Cb,Ak

G2:H,[*1]

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 23:CLASS 24:CLASS 27:CLASS 28:CLASS 30:CLASS
```

L11 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10540330\11.str



```

chain nodes :
12 19 23 27 28 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18
ring/chain nodes :
24
chain bonds :
2-27 3-28 4-8 5-30 12-13 12-23
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
2-27 3-28 5-30 12-13 12-23
exact bonds :
1-2 1-5 2-3 3-4 4-5 4-8
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11 13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 : 6 : 13 :
```

G1:Cb,Ak

G2:H, [*1]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 23:CLASS 24:CLASS 27:CLASS 28:CLASS 30:CLASS

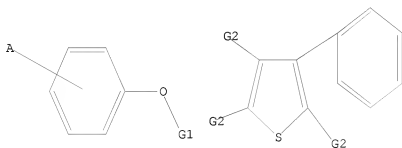
L12 STRUCTURE UPLOADED

=> d

L12 HAS NO ANSWERS

L12 STR

1



G1 Cb,Ak

G2 H, [*1]

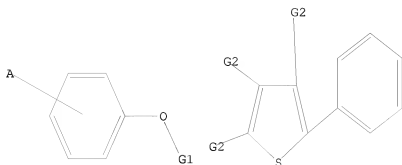
Structure attributes must be viewed using STN Express query preparation.

=> d l11

L11 HAS NO ANSWERS

L11 STR

1



G1 Cb,Ak

G2 H, [E1]

Structure attributes must be viewed using STN Express query preparation.

```
=> s l11 full sub=L10
FULL SUBSET SEARCH INITIATED 12:00:09 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -      2559 TO ITERATE

100.0% PROCESSED      2559 ITERATIONS                937 ANSWERS
SEARCH TIME: 00.00.01

L13          937 SEA SUB=L10 SSS FUL L11

=> s l12 full sub=L10
FULL SUBSET SEARCH INITIATED 12:00:18 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -      10195 TO ITERATE

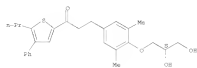
100.0% PROCESSED      10195 ITERATIONS                428 ANSWERS
SEARCH TIME: 00.00.01

L14          428 SEA SUB=L10 SSS FUL L12

=> d scan
```

114 428 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STM
 IN 3-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(4-
 phenyl-5-propyl-2-thienyl)-
 MF C27 H32 O4 S

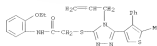
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

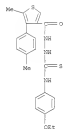
114 428 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STM
 IN Acetamide, N-[2-ethoxyphenyl]-2-[3-(5-methyl-4-phenyl-3-thienyl)-4-(2-
 propen-1-yl)-4H-1,2,4-triazol-5-yl]thio]-
 MF C26 H26 N4 O3 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

114 428 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STM
 IN 3-Thiophenecarboxylic acid, 5-methyl-4-(4-methylphenyl)-,
 2-[[4-(2-ethoxyphenyl)amino]thio]methyl-2-thiopyran-5-yl
 MF C22 H23 N3 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

(FILE 'HOME' ENTERED AT 11:49:07 ON 05 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:49:20 ON 05 SEP 2007

L1 STRUCTURE UPLOADED
L2 50 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3
L5 21110 S L3 FULL
L6 STRUCTURE UPLOADED
L7 STRUCTURE UPLOADED
L8 12969 S L7 FULL SUB=L5
L9 STRUCTURE UPLOADED
L10 12463 S L9 FULL SUB=L8
L11 STRUCTURE UPLOADED
L12 STRUCTURE UPLOADED
L13 937 S L11 FULL SUB=L10
L14 428 S L12 FULL SUB=L10

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	343.70	343.91

FILE 'CAPLUS' ENTERED AT 12:01:42 ON 05 SEP 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 5 Sep 2007 VOL 147 ISS 11

FILE LAST UPDATED: 4 Sep 2007 (20070904/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l13

L15 246 L13

=> s l14

L16 88 L14

=> s l15 or l16
L17 262 L15 OR L16

=> log h
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 5.17 349.08

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:08:18 ON 05 SEP 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAJMN1626

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:28:30 ON 05 SEP 2007
FILE 'CAPLUS' ENTERED AT 13:28:30 ON 05 SEP 2007
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 5.17 349.08

=> d his

(FILE 'HOME' ENTERED AT 11:49:07 ON 05 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:49:20 ON 05 SEP 2007

L1 STRUCTURE UPLOADED
L2 50 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3
L5 21110 S L3 FULL
L6 STRUCTURE UPLOADED
L7 STRUCTURE UPLOADED
L8 12969 S L7 FULL SUB=L5
L9 STRUCTURE UPLOADED
L10 12463 S L9 FULL SUB=L8
L11 STRUCTURE UPLOADED
L12 STRUCTURE UPLOADED
L13 937 S L11 FULL SUB=L10
L14 428 S L12 FULL SUB=L10

FILE 'CAPLUS' ENTERED AT 12:01:42 ON 05 SEP 2007

L15 246 S L13
L16 88 S L14

L17 262 S L15 OR L16

=> s l17 and ppar
 9692 PPAR

L18 12 L17 AND PPAR

=> d ibib abs hitstr 1-12

118 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on SYN (Continued)

ACCESSION NUMBER: 147118022
DOCUMENT NUMBER: 2007-705845 CAPLUS
TITLE: Preparation of cyclic alkyl compounds as
PPAR δ activators for treating various
diseases including diabetes and obesity
Inventors: Sauerberg, Perry Fabera, Pawel Polivka, (name);
Beverly, Miroslav; Peterson, Ingrid; Neumann,
John

PATENT ASSIGNER(S): Patrick
SOURCES: Novo Nordisk A/S, Den.
PC: Int. Appl., 21ppp.
COUNTRY: EP0099

DOCUMENT TYPE: Patent
LAWFIRM: Reginald
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 140701166	A1	2006-07-06	20041221	
US, AU, AL, AM, AT, BE, BG, BR, BS, BY, CA, CH, CN, CO, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LI, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, NL, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SV, SW, TH, TR, UA, US, VE, YU, ZA, ZM, ZW				
EP 100511278	A1	2005-11-25	A 20051222	
EP 2006-115631	A	20060419		

INDEX SOURCE(S): MARPAT 147118022
C1

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Novel compounds of the general formula I (wherein the "large X" is a double bond, X1 is heterocyclic, aryl, heterocyclic, etc.; X2 is unsubstituted arylene as heterocyclic, aryl, heterocyclic, etc.; X3 is unsubstituted arylene Y1 is O or S; and Y2 is O, S or CH₂ and Z is -C(=O)- where n = 1-3 and R1 = H, halo, etc.) the use of these compounds as pharmaceuticals, pharmaceutical compositions comprising the compounds, and methods of treatment employing these compounds, and compounds, are claimed.

The present compounds are activators of PPAR δ and should be

useful for treating conditions mediated by the same, such as diabetes, impaired glucose tolerance, insulin resistance, cardiovascular disease, etc.; no limit, data is shown in the patent. Example compound II was prepared by reacting Me (E)-4-[3-(4-iodophenyl)-3-(4-trifluoromethylphenyl)allyloxy]-2-methylphenylacetate with 2-methylpyridine and converting the ester obtained to the acid.

942595-29-72 CAPLUS
R1: PPAR (Pharmacological activity); SYN (Synthetic preparation); THP (Therapeutic use); BIO (Biological study); PREP (Preparation); USES (Uses)
(drug candidate) preparation of aryl, heterocyclic, and heterocyclic compounds as PPAR δ activators for treating various diseases including diabetes and obesity)

942595-29-72 CAPLUS
CN Acetic acid,
2-[2-methyl-4-[[[(E)-3-[4-(5-methyl-2-thienylphenyl)-3-[4-[[3-(4-morpholinyl)-1-propenyl-1-yl]phenyl]-2-propenyl-1-yloxy]phenyl]-1-pyrrolidinyl]-3-propenyl-1-yl]phenyl]-2-propenyl-1-yloxy]phenyl]- (CA INDEX NAME)

Double bond geometry as shown.

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942595-26-8 CAPLUS
CN Acetic acid,
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Double bond geometry as shown.

100

918164-62-2 CAPLUS
Acetic acid, 2-[4-[[[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenoxyl-, methyl ester (CA INDEX NAME)

910164-64-4 CASREG
Acetic acid, 2-[4-[[[4-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl)methyl]thio]phenoxyl]- (CA INDEX NAME)

REFERENCE COUNT: 110 THERE ARE 110 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

L18 ANNEK 3 OF 12 CAPSULE COPYRIGHT 2007 ACS ON SYN

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNER(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY AC. NUM. COUNT:

PATENT INFORMATION:

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L18 ANNEK 3 OF 12 CAPSULE COPYRIGHT 2007 ACS ON SYN (Continued)

y (PPAR-gamma-). In compa. 1, A1 and A2 are

independently selected from Ph, pyridinyl, pyrimidinyl, pyrrolidinyl,

pyridazinyl, thienyl, isothienyl, thiazolyl, thiazidinyl, furanyl,

isoxazolyl, isoxazolyl, isoxadiazolyl, pyrazolyl, pyrazolidinyl, and

triazolyl, where A2 is substituted with a 3-oxopropyl or 3-oxopropenyl

moiety. The invention also relates to the prepn. of 1, pharmaceutical or

cosmetic compns. comprising, in a physical acceptable support, at least

one compd. of formula 1, as well as to the use of the compn. in human or

veterinary medicine, or in cosmetic compns. Me 3-hydroxy-4-iodobenzonate

was alkylated with 1-iodobenzonate, reduced with LiAlH₄, and oxidized withMeO₂ giving 3-butoxy-4-iodobenzaldehyde, which underwent Wittig

olefination with Me triphenylphosphoronyldimethylacetate, resulting in the

formation of acrylate II. Reductive amination of 4-bromothiophene-2-

carboxaldehyde with methylamine followed by H₂ protection and oxidation

with pinacol diboron gave boronate III, which underwent Suzuki coupling

with acrylate II, hydrolytic deprotection, degradation, acylation with acetoxy

chloride, and water hydrolysis to give compd. IV. Several compds. of the

invention are selective modulators of PPAR-gamma, e.g., compd.

IV expresses EC₅₀ value of 2 nM to PPAR-gamma, but if not

active towards either PPAR-alpha, or PPAR-delta...

IT 887932-63-3P, 2-[5-[3-[N-(4-butoxyphenyl)-N-

methylethylamino]phenyl]thien-2-yl]propionic acid 887932-63-3P,

3-[5-butoxy-4-[5-[[N-(4-methoxyphenyl)-N-methylamino]methyl]thien-3-

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887932-71-3P (Pharmacological activity); SPN (Synthetic preparation); TRU

(Therapeutic use); BICL (Biological study); PPAR (Preparation); USES

(Uses)

(drug candidate preparation of biaryl compds. as PPAR-gamma

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(Uses)

(drug candidate preparation of biaryl compds. as PPAR-gamma

OTHER SOURCE(S):

MARPAT 141,8033

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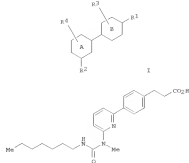
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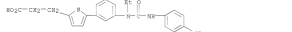
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L18 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

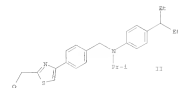
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L18 ANMER 5 OF 13 CAPLOS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 00404787932 CAPLOS
 DOCUMENT NUMBER: 141301401
 TITLE: Preparation of azole compounds as PTP1B inhibitors
 INVENTOR(S): Ikemoto, Tomoyuki; Tanaka, Masahiro; Irie, Takao;
 Sakamoto, Nobuyuki; Nakashima, Eiko; Miyazaki, Shinya;
 Yutishi, Chika; Takahashi, Sakata, Shobae; Norinaga,
 Mitsuyo
 PATENT ASSESSOR(S): Japan Tobacco Inc., Japan
 SOURCE: PCT Int. Appl., 542 pp.
 DOCUMENT TYPE: OTHER: P1X02
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 Japanese
 PATENT INFORMATION:

[illegible]

OTHER SOURCE(S): MARPAT 141-750161

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on SYN (Continued)

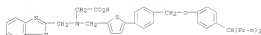


AR Title compds. 1 [V = N, CH; W = S, O; n = 0-2; R1, R2 = H, alkyl; R = H, 4-, etc.; R4 = H, alkyl; n = 0-4; p = 0, 1; L = CH2OR2, etc.; R20 = H, alkyl, etc.; R21 = H, alkyl, etc.; R = CO2R19, etc.; R19 = H, alkyl; R = aryl, heteroaryl; R3 = H, halo, etc.; Y = O, etc.; s = 0, 1; A = unsubstituted alkylene with cycloalkyl; E = cycloalkyl, etc.] were prepared for example, O-alkylation of 5-hydroxyisotriazin-4-one Me ester with compound 11 [Q = Cl], s.e., prepared from 4-bromoisobenzonitrile acid Me ester in 5 steps, followed by saponification afforded compound 11 [3-carboxypyridin-5-ylonyl] in 44.1% overall yield.

1n PTP1B (protein tyrosine phosphatase 1B) inhibition assays, the IC50 value of compound 11 [Q = 3-carboxypyridin-5-ylonyl] was 0.28 μ M. Compds. 1 are claimed useful for the treatment of obesity, diabetes, etc. Formulations are given.

1T 776310-90-6P 776310-99-7P 776311-39-8P 776312-40-1P 776311-81-0P
R1: RAC (Pharmacological activity); R2T (Reactant); R2W (Synthetic preparation); R2U (Therapeutic use); R2G (Biological study); R2P (Preparation); R2C (Reactant or reagent); R2S (Uses)
Preparation of azole compds. as PTP1B inhibitors for treatment of obesity

119 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on SYN (Continued)



CN 2

CN 104-15-4

CNF CT 81 O3 S

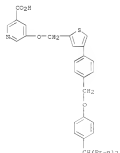


R1 776311-40-1 CAPLUS

CN 3-Pyridinecarboxylic acid, 5-[[4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methoxy], sulfate (1:1) (9C1) (CA INDEX NAME)

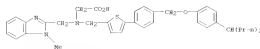
CN 1

CNF C31 K23 N O4 S



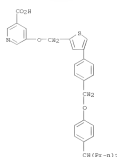
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on SYN (Continued)

and diabetes)
R1 776310-90-6 CAPLUS
CN Glycine, N-[[1-methyl-18-benzimidazol-2-yl)methyl]-N-[[5-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9C1) (CA INDEX NAME)



R1 776310-99-7 CAPLUS

CN 3-Pyridinecarboxylic acid, 5-[[4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methoxy]- (9C1) (CA INDEX NAME)



CH (Pr-n)2

R1 776311-39-8 CAPLUS

CN Glycine, N-[[1-methyl-18-benzimidazol-2-yl)methyl]-N-[[5-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]-, meso (4-methylbenzenesulfonate) (9C1) (CA INDEX NAME)

CN 1

CNF 776310-98-6

CNF C36 K41 N3 O3 S

119 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on SYN (Continued)

CN 2

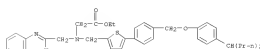
CNF 7664-93-9

CNF K2 O4 S



R1 776311-81-0 CAPLUS

CN Glycine, N-[[1-methyl-18-benzimidazol-2-yl)methyl]-N-[[5-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]-, ethyl ester (9C1) (CA INDEX NAME)



CH (Pr-n)2

1T 776311-02-5P 776311-05-8P 776311-06-9P

776311-07-0P 776311-08-1P 776311-09-2P

776311-12-7P 776311-14-8P 776311-15-9P

776311-22-0P 776311-24-2P 776311-26-3P

776311-28-5P 776311-29-6P 776311-30-7P

776311-31-8P 776311-36-0P 776311-37-1P

776311-38-7P 776311-41-2P 776311-42-3P

776311-43-4P 776311-44-5P 776311-45-6P

776311-46-7P 776311-47-8P 776311-48-9P

776311-49-0P 776311-50-2P 776311-51-4P

776311-52-5P 776311-53-6P 776311-54-7P

776311-55-8P 776311-56-9P 776311-57-0P

776311-58-1P 776311-62-7P 776311-67-2P

776311-68-3P 776311-69-4P 776311-70-7P

776311-71-8P 776311-75-0P 776311-74-9P

776311-76-1P 776311-76-2P 776311-79-4P

776311-80-5P 776311-84-2P 776311-85-4P

776311-86-5P 776311-87-6P 776311-88-7P

776311-89-8P 776311-90-1P 776311-92-2P

776311-93-3P 776311-97-4P 776311-94-5P

776311-95-6P 776311-96-7P 776311-97-8P

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776312-02-2P 776312-04-6P 776312-05-1P

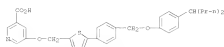
776312-40-0P 776312-42-1P

R1: RAC (Pharmacological activity); R2W (Synthetic preparation); R2U (Therapeutic use); R2G (Biological study); R2P (Preparation); R2C (Reactant or reagent); R2S (Uses)

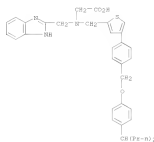
Preparation of azole compds. as PTP1B inhibitors for treatment of obesity

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

BN 776311-02-5 CAPLUS
 CN 3-Pyridinesulfonamide acid,
 5-[[[5-[4-[[4-(3-propylsulfonylphenyl)methyl]phen-
 yl]-2-thienyl]methoxy]- (PC1) (CA INDEX NAME)



BN 776311-05-9 CAPLUS
 CN Glycine, N-[[5-benzimidazol-2-ylmethyl]-N-[[4-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)



BN 776311-06-9 CAPLUS
 CN 3-Pyridinesulfonamide acid,
 4-[[[4-[4-[[4-(3-propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methoxy]- (PC1) (CA INDEX NAME)

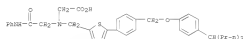


118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

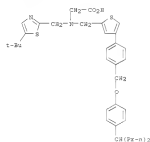
PAGE 1-B

-CH (Pr-n)2

BN 776311-09-3 CAPLUS
 CN Glycine, N-[[2-oxo-2-(phenylamino)ethyl]-N-[[5-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)



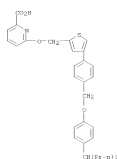
BN 776311-12-7 CAPLUS
 CN Glycine, N-[[5-[2,3-dimethylthyl]-2-thiazolyl]methyl]-N-[[4-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)



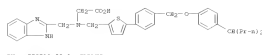
BN 776311-14-9 CAPLUS
 CN Glycine, N-[[4-[2,3-dimethylthyl]-2-thiazolyl]methyl]-N-[[4-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)



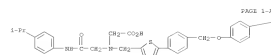
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



BN 776311-07-0 CAPLUS
 CN Glycine, N-[[5-benzimidazol-2-ylmethyl]-N-[[5-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)

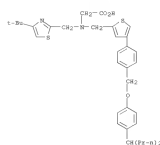


BN 776311-08-1 CAPLUS
 CN Glycine,
 N-[[2-[[4-(1-methylthylphenyl)amino]-3-oxomethyl]-N-[[5-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)

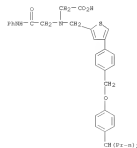


PAGE 1-A

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

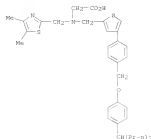


BN 776311-15-0 CAPLUS
 CN Glycine, N-[[2-oxo-2-(phenylamino)ethyl]-N-[[4-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)



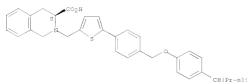
BN 776311-22-9 CAPLUS
 CN Glycine, N-[[4,5-dimethyl-2-thiazolyl]methyl]-N-[[4-[4-[[4-(1-
 propylsulfonylphenyl)methyl]phenyl]-2-thienyl]methyl]- (PC1) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



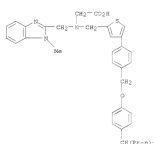
776311-25-2 CAPLUS
 CN 3-azabenzolinesuccinic acid, 1,2,3,4-tetrahydro-2-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]-, (3S) - (PCI) (CA INDEX NAME)

Absolute stereochemistry.

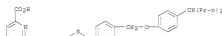


776311-26-3 CAPLUS
 CN Glycine, N-[[4-[[4-(1-methylthienyl)phenyl]amino]-2-oxoethyl]-N-[[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (PCI) (CA INDEX NAME)

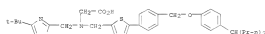
119 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



776311-30-9 CAPLUS
 CN 2-Pyridinacetic acid, 4-[[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (PCI) (CA INDEX NAME)

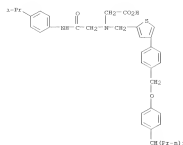


776311-34-3 CAPLUS
 CN Glycine, N-[[4-[[4-(1-methylthienyl)-2-thiazolyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (PCI) (CA INDEX NAME)

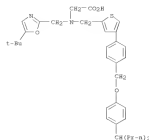


776311-36-5 CAPLUS
 CN Glycine, N-[[5-[4-(1-methylthienyl)-2-thiazolyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (PCI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

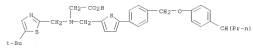


776311-28-5 CAPLUS
 CN Glycine, N-[[5-[4-(1-methylthienyl)-2-oxazolyl]methyl]-N-[[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (PCI) (CA INDEX NAME)

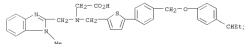


776311-29-6 CAPLUS
 CN Glycine, N-[[1-methyl-1H-benzimidazol-2-yl]methyl]-N-[[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (PCI) (CA INDEX NAME)

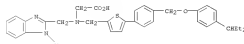
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



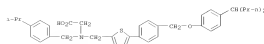
776311-37-6 CAPLUS
 CN Glycine, N-[[5-[4-[[4-(1-ethylpropyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]-N-[[1-methyl-1H-benzimidazol-2-yl]methyl]-, sodium salt (PCI) (CA INDEX NAME)



776311-38-7 CAPLUS
 CN Glycine, N-[[5-[4-[[4-(1-ethylpropyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]-N-[[1-methyl-1H-benzimidazol-2-yl]methyl]-, calcium salt (PCI) (CA INDEX NAME)

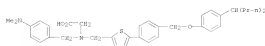


776311-41-2 CAPLUS
 CN Glycine, N-[[4-(1-methylthienyl)phenyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (PCI) (CA INDEX NAME)

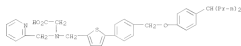


118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

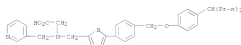
776311-43-3 CAPLUS
 CH Glycine, N-[[4-[[4-methylphenyl]methoxy]methyl]-N-[[5-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)



776311-47-4 CAPLUS
 CH Glycine, N-[[5-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-N-[[2-pyridyl]methyl]- (9CI) (CA INDEX NAME)



776311-44-5 CAPLUS
 CH Glycine, N-[[5-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-N-[[3-pyridyl]methyl]- (9CI) (CA INDEX NAME)



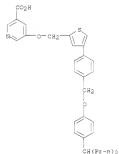
776311-45-6 CAPLUS
 CH 3-pyridinemethoxylic acid, 5-[[4-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-, methanesulfonate (9CI) (CA INDEX NAME)

CH 1

776310-89-7
 CH 776310-89-7
 CH 776310-89-7

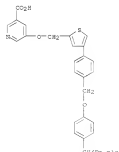
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

776311-43-3 CAPLUS
 CH 3-pyridinemethoxylic acid, 5-[[4-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-, sodium salt (9CI) (CA INDEX NAME)



● 3a

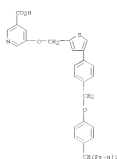
776311-49-9 CAPLUS
 CH 3-pyridinemethoxylic acid, 5-[[4-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-, hydrochloride (9CI) (CA INDEX NAME)



● 3C1

776311-49-0 CAPLUS

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

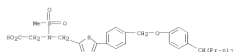


CH 2

776311-43-3
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 CH 776311-43-3



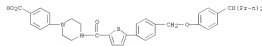
776311-46-7 CAPLUS
 CH Glycine, N-[[methylsulfonyl]-N-[[5-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)



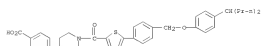
776311-47-8 CAPLUS

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

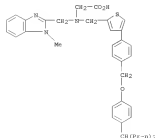
776311-50-3 CAPLUS
 CH Benzoic acid, 4-[[4-[[5-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



776311-50-3 CAPLUS
 CH Benzoic acid, 4-[[4-[[5-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



776311-51-4 CAPLUS
 CH Glycine, N-[[1-methyl-3H-benzimidazol-2-yl]methyl]-N-[[4-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-, mesohydrochloride (9CI) (CA INDEX NAME)



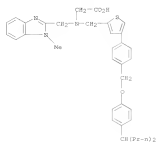
● 3C3

776311-52-5 CAPLUS
 CH Glycine, N-[[1-methyl-3H-benzimidazol-2-yl]methyl]-N-[[4-[[4-[[4-[[3-propoxy]butoxy]phenoxymethyl]phenyl]-2-thienyl]methyl]-, sulfate (1:1) (9CI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CH 3

CHN 776311-29-6
 CNF C76 843 X3 O3 S



CH 2

CHN 7664-93-9
 CNF R2 O4 S

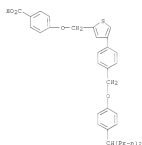


RN 776311-53-6 CAPLUS
 CH Benzoic acid, 4-[[[4-methylamino]acetyl]amino]-3-[[4-[[4-[[3-propylbutyl]phenoxy]methyl]phenyl]-2-thienyl]methoxy]- (PC1) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

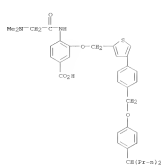
RN 776311-55-8 CAPLUS

CH Benzoic acid, 4-[[[4-[[4-[[3-propylbutyl]phenoxy]methyl]phenyl]-2-thienyl]methoxy]- (PC1) (CA INDEX NAME)

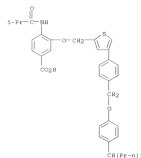


RN 776311-56-9 CAPLUS
 CH Benzoic acid, 4-methyl (methylamino)amino]-3-[[4-[[4-[[3-propylbutyl]phenoxy]methyl]phenyl]-2-thienyl]methoxy]- (PC1) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

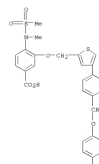


RN 776311-54-7 CAPLUS
 CH Benzoic acid, 4-[[[2-methyl-3-propoxy]amino]-3-[[4-[[4-[[3-propylbutyl]phenoxy]methyl]phenyl]-2-thienyl]methoxy]- (PC1) (CA INDEX NAME)



118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

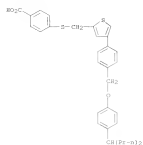


PAGE 2-A

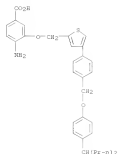


RN 776311-57-0 CAPLUS
 CH Benzoic acid, 4-[[[4-[[4-[[3-propylbutyl]phenoxy]methyl]phenyl]-2-thienyl]methoxy]thio]- (PC1) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

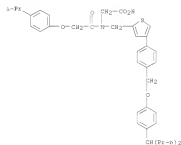


220 776311-58-1 CAPLUS
 CH Benzoic acid,
 4-amino-2-[[4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

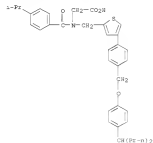


220 776311-62-7 CAPLUS
 CH Glycine, N-[(methyphenylamino)sulfonyl]-N-[[4-[4-[(1-

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

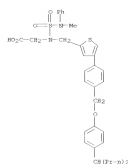


220 776311-68-3 CAPLUS
 CH Glycine, N-[[4-(1-methyl-2-thienyl)benzoyl]-N-[[4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)



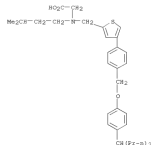
220 776311-69-4 CAPLUS
 CH Glycine,
 N-(3-methylbutyl)-N-[[4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

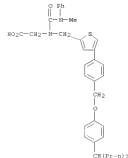


220 776311-67-2 CAPLUS
 CH Glycine, N-[[4-(1-methyl-2-thienyl)benzoyl]-N-[[4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

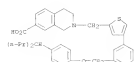


220 776311-70-7 CAPLUS
 CH Glycine, N-[(methyphenylamino)carbonyl]-N-[[4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

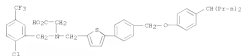


220 776311-71-8 CAPLUS
 CH 7-Isopropyl-2-methyl-2-oxo-1,2,3,4-tetrahydro-2-[4-[2-[[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

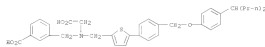
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



XXI 776311-73-0 CAPLUS
 CH Glycine, N-[[2-ethoxy-3-[[trifluoromethyl]phenyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)



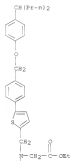
XXI 776311-74-1 CAPLUS
 CH Benzoic acid, 3-[[[oxisoxymethyl] [[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]amino]methyl]- (9CI) (CA INDEX NAME)



XXI 776311-75-2 CAPLUS
 CH Glycine, N-[[4-methoxyphenyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

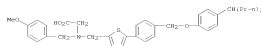
PAGE 1-A



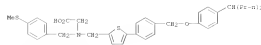
● HCl

XXI 776311-76-3 CAPLUS
 CH Glycine, N-[[1-methyl-2-hydroxy-2-yl]methyl]-N-[[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

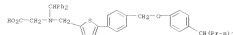
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



XXI 776311-76-3 CAPLUS
 CH Glycine, N-[[4-methylthio]phenyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

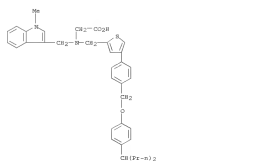


XXI 776311-77-4 CAPLUS
 CH Glycine, N-[[4-phenyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

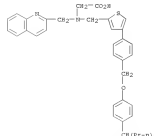


XXI 776311-78-9 CAPLUS
 CH Glycine, N-[[2-oxo-2-[[4-(1-propylbutyl)phenyl]methyl]-N-[[5-[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

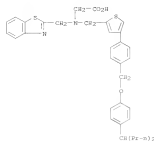


XXI 776311-85-4 CAPLUS
 CH Glycine, N-[[4-[[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]-N-[[2-quinolyl]methyl]- (9CI) (CA INDEX NAME)

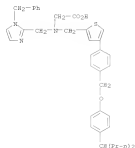


XXI 776311-86-5 CAPLUS
 CH Glycine, N-[[2-benzothiazolyl]methyl]-N-[[4-[[4-[[4-(1-propylbutyl)phenoxy]methyl]phenyl]-2-thienyl]methyl]- (9CI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

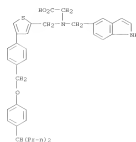


GN Glycine, N-[[1-(phenylmethyl)-1H-imidazol-2-yl)methyl]-N-[[4-[4-[[4-(1-propylbutyl)phenoxy)methyl]phenyl]-2-thienyl)methyl]- (9CI) (CA INDEX NAME)



GN Glycine, N-[[1,8-bis(2-5-pyrimethyl)-N-[[4-[4-[[4-(1-propylbutyl)phenoxy)methyl]phenyl]-2-thienyl)methyl]- (9CI) (CA INDEX NAME)

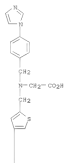
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



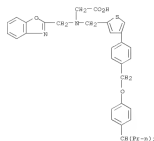
GN Glycine, N-[[4-(1,8-bis(2-5-pyrimethyl)-N-[[4-[4-[[4-(1-propylbutyl)phenoxy)methyl]phenyl]-2-thienyl)methyl]- (9CI) (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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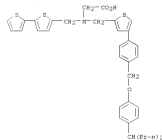
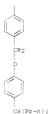


118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



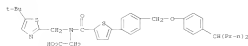
GN Glycine, N-[[2,2'-bithiophen]-5-yl)methyl]-N-[[4-[4-[[4-(1-propylbutyl)phenoxy)methyl]phenyl]-2-thienyl)methyl]- (9CI) (CA INDEX NAME)

PAGE 2-A



GN Glycine, N-[[2-benzothiazol-4-yl)methyl]-N-[[5-[4-[4-(1-propylbutyl)phenoxy)methyl]phenyl]-2-thienyl)methyl]- (9CI) (CA INDEX NAME)

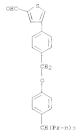
118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 776312-26-6P 776312-27-7P 776312-28-8P
 776312-29-9P 776312-33-5P 776312-34-6P
 776312-35-7P
 EA NCT (Reactant); SPH (Synthetic preparation); FRED (Preparation); RACT
 (Reactant or reagent)

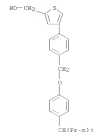
[Preparation of acrole compounds; as PTPase inhibitors for treatment of obesity and diabetes]

IN 776312-26-6 CAPLUS
 CN 2-Thiophenecarboxaldehyde,
 4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-
 [Pr] (CA INDEX NAME)

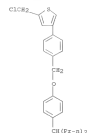


IN 776312-27-7 CAPLUS
 CN 2-Thiophenemethanol, 4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-
 [Pr] (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



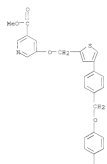
IN 776312-28-8 CAPLUS
 CN Thiophene,
 2-(chloromethyl)-4-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-
 [Pr] (CA INDEX NAME)



IN 776312-29-9 CAPLUS
 CN 3-Pyridinecarboxylic acid,
 2-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-2-thiyl[methoxy]-, methyl ester [Pr] (CA INDEX NAME)

118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

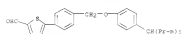
PAGE 1-A



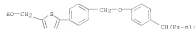
CH(Pr-n)2

PAGE 2-A

IN 776312-33-5 CAPLUS
 CN 2-Thiophenecarboxaldehyde,
 5-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-
 [Pr] (CA INDEX NAME)

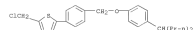


IN 776312-34-6 CAPLUS
 CN 2-Thiophenemethanol, 5-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-
 [Pr] (CA INDEX NAME)



118 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IN 776312-35-7 CAPLUS
 CN Thiophene,
 2-(chloromethyl)-5-[4-[(1-propylbutyl)phenoxy]methyl]phenyl]-
 [Pr] (CA INDEX NAME)



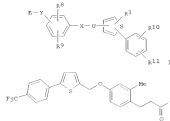
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR
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 FORMAT

118	AMMER, C F	CAPLOS COPYRIGHT 2007 ACS on STM
ACCESSION NUMBER:	2006-060400	CAPLOS
DOCUMENT NUMBER:	1411257025	
TITLE:	Preparation of diabetics as PPAR modulators for treatment of diabetes mellitus, cardiovascular diseases, inflammatory diseases, and related disorders	
INVENTOR(S):	Mentlo, Nathan Bryan; Wang, Xiaodong EME, Guozhi	
PATENT ASSIGNER(S):	Lilly and Company, USA	
SCIENCE:	DOI Ref. Appl., 137 pp.	
	CODEN: PIKX52	
DOCUMENT TYPE:	Patent	
LANGUAGE:	English	
FAMILY ACC. NUM. COUNT:	1	

[illegible]

INSTANT APPLICATION

L18 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on ETR (Continued)



AB Title compounds: H = H, (un)substituted alkyl, alkynyl, (hetero)aryl(alkyl), aryl(hetero)alkyl, cycloalkyl(aryl(alkyl)); R¹ = H, alkyl, alkynyl, halo; R² = H, (un)substituted alkyl, alkynyl, halo, aryl(alkyl), heteroaryl, alkyl, alkoxy, etc.; R³, R⁴, R⁵ = independently H, CH₃, CH, R⁶, halo, n-oxo, (un)substituted (halo)alkyl, alkoxy, cycloalkyl, (hetero)aryl(alkyl), cycloalkyl(aryl(alkyl)), arylony, acyl, carbonyl, amino, sulfonyl, etc.; E = (un)substituted carbonyl(methyl), tetrazolyl(methyl), nitroalkyl, carbamido(methyl), sulfoxamido(methyl); D = -

(un)substituted aliphatic linker wherein one C of the linker is optionally replaced with O, NH, or S; X = bond, O, S, SO₂, NH; Y = bond, CH₂, NH; or stereoisomers, pharmaceutically acceptable salts, solvates, and hydrates thereof) were prepared as peroxisome proliferator activated receptor (PPAR) modulators (no data). For example, coupling of 2-chloromethyl-5-(4-trifluoromethylphenyl)thiophene with 3-(4-hydroxy-2-methylphenyl)propionic acid Me ester in the presence of

provided II. I and their pharmaceutical compns. are expected to be effective in treating and preventing diabetes mellitus, cardiovascular

disorders, inflammatory conditions, and other disorders (no data).
 728037-76-4P, [2-Methyl-5-[(1-[5-(4-trifluoromethylphenyl)thien-2-yl]propyl)sulfonyl]phenyl]acetic acid 728037-77-7P,
 (K)-[2-Methyl-4-[(2-[3-methyl-5-(4-trifluoromethylphenyl)thien-2-yl]propyl)sulfonyl]phenyl]acetic acid 728038-88-8P,
 (S)-[2-Methyl-4-[(2-[3-methyl-5-(4-trifluoromethylphenyl)thien-2-yl]propyl)sulfonyl]phenyl]acetic acid 728038-96-8P,
 [2-Methyl-4-[(2-[3-methyl-5-(4-trifluoromethylphenyl)thien-2-yl]propyl)sulfonyl]phenyl]acetic acid

Ref. PAC (Pharmacological activity); SYN (Synthetic preparation);
 T (Toxicologic study); B (Biological study); PREP (Preparation);
 USE (Use).

118 ANSWER 6 OF 12 CAPTIVE COPYRIGHT 2007 ACS on STM (Continued)

PPAR modulator; prepn. of thiophenes as PPAR modulators for treatment of diabetes mellitus, cardiovascular diseases, inflammatory diseases, and other disorders

N2 728038-76-4 CAPUS

C3 Acetic acid, [2-methyl-6-[[5-[4-(trifluoromethyl)phenyl]-2-thienylmethoxy]phenyl]- (PCI) (CA INDEX NAME)

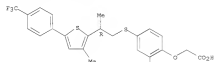


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NN  728038-87-7  CAPLUS
CN  Acetic acid,
    [2-methyl-4-[[[2K]-2-[3-methyl-5-[4-(trifluoromethyl)phenyl]-
    2-thienyl]propyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

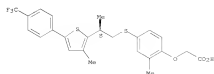
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Absolute stereochemistry



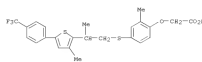
NN 728038-89-8 CAPLUS
 CN Acetic acid,
 [2-methyl-4-[(2S)-2-[3-methyl-5-[4-(trifluoromethyl)phenyl]-
 2-thienylpropylthio]phenoxyl- (SCT) (CA INDEX NAME)

Absolute stereochemistry

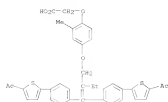


FN 728038-36-8 CAPLUS
 CN Acetic acid, [2-methyl-4-[[2-[3-methyl-5-[4-[(trifluoromethyl)phenyl]-2-thienyl]propyl]thio]phenoxyl- (SCI) (CA INDEX NAME)

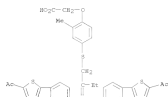
118 ANSWER 6 OF 12 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

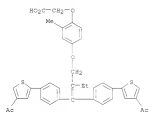


673479-71-3 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(5-acetyl-2-thienyl)phenyl]methylene]butyl]thio)-2-methylphenoxy]- (SC1) (CA INDEX NAME)

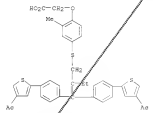


673479-71-5 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(4-acetyl-2-thienyl)phenyl]-2-propenyl]thio)-2-methylphenoxy]- (SC1) (CA INDEX NAME)

118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

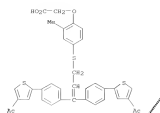


673479-74-8 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(4-acetyl-2-thienyl)phenyl]methylene]butyl]thio)-2-methylphenoxy]- (SC1) (CA INDEX NAME)

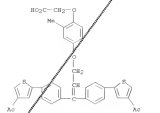


673479-69-6 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(5-acetyl-2-thienyl)phenyl]-2-propenyl]thio]phenoxy)- (SC1) (CA INDEX NAME)

118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

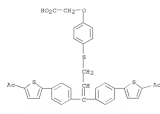


673479-72-4 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(4-acetyl-2-thienyl)phenyl]-2-propenyl]oxy)-2-methylphenoxy]- (SC1) (CA INDEX NAME)

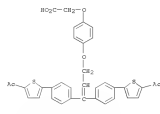


673479-72-7 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(4-acetyl-2-thienyl)phenyl]methylene]butoxy)-2-methylphenoxy]- (SC1) (CA INDEX NAME)

118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

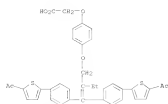


673480-10-9 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(5-acetyl-2-thienyl)phenyl]-2-propenyl]oxy]phenoxy)- (SC1) (CA INDEX NAME)

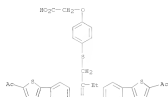


673480-11-5 CAPLUS
 CN Acetic acid, [4-([2-[bis[4-(5-acetyl-2-thienyl)phenyl]methylene]butoxy]phenoxy)- (SC1) (CA INDEX NAME)

118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

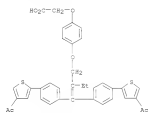


FN 673480-12-1 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]methyle)butyl]thio]phenoxyl- (PC1) (CA INDEX NAME)

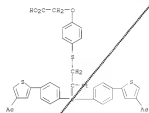


FN 673480-14-1 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]-2-propenyl]thio]phenoxyl- (PC1) (CA INDEX NAME)

118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

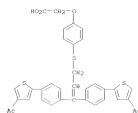


FN 673480-51-4 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]methyle)butyl]thio]phenoxyl- (PC1) (CA INDEX NAME)

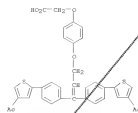


FN 673480-69-8 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]-2-ethoxy-2-propenyl]thio]-2-methylphenoxyl- (PC1) (CA INDEX NAME)

118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

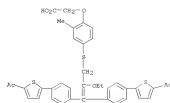


FN 673480-55-2 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]-2-propenyl]oxy]phenoxyl- (PC1) (CA INDEX NAME)

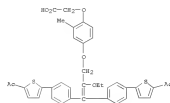


FN 673480-56-3 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]methyle)butoxy]phenoxyl- (PC1) (CA INDEX NAME)

118 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on 57H (Continued)

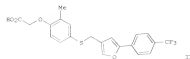
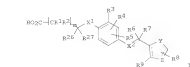


FN 673482-91-2 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]-2-ethoxy-2-propenyl]oxy)-2-methylphenoxyl- (PC1) (CA INDEX NAME)



FN 673483-69-1 CAPLUS
CN Acetic acid, [4-([3,3-bis[4-(4-acetyl-2-thienyl)phenyl]-2-ethoxy-2-propenyl]thio)-2-methylphenoxyl- (PC1) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)



AB The title compds. [1] R1 = O, S, NH, NMe, alkyl; R2 = H, alkyl; R3-R5 = H, Me, OMe, CF3, halo; n = 0-3; R6 = CR3(R1)2, O, S, OCH2; n = 1-2; R7, R8, R9, R10, R11 = H, F, alkyl; etc.; one of Y and Z = CH, the other = S, O with the proviso that Y cannot be substituted and Z can only be substituted when it is carbonyl; R9 = (unsubstituted Ph, pyridyl) wherein the H at an position 2 or 3) with the provision that when R5 = pyridyl, the H is unsubstituted; R9 = alkyl, CF3, CH2 (D = N-substituted piperazine, furan, piperidine, etc.); R10, R11 = H, alkyl or R10 and R11, together with the carbon atom to which they are bonded form a 3-5 membered

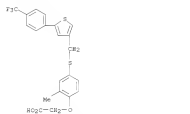
cyclically ring) and their pharmaceutically acceptable salts, useful for the treatment of a NPAK mediated disease or condition such as agglutination, syndrome X, heart failure, hypercholesterolemia, cardiovascular disease, type II diabetes mellitus, type I diabetes, insulin resistance, hyperlipidemia, obesity, anorexia bulimia, inflammation and anorexia nervosa, were prepared. Thus, coupling [5-[4-(trifluoromethyl)phenyl]-3-furylmethanol with R1 [4-methoxy-2-methylphenyl]acetate followed by hydrolysis of the resulting ester afforded the acid II.

IT 476154-11-7P 476154-67-7P
R1: PAC (Pharmacological activity); R2: (Reagent); SPH (Synthetic preparation); THP (Therapeutic use); BUL (Biological study); PREP (Preparation); RACT (Reagent or reagent); OSES (Uses) (preparation of furan and thiophene deriva. that activate human

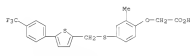
proliferator activated receptors)

R2: 476154-11-7 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]- (PC1) (CA INDEX NAME)

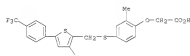
119 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)



RN 476154-12-8 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]- (PC1) (CA INDEX NAME)



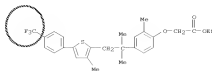
RN 476154-13-9 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]- (CA INDEX NAME)



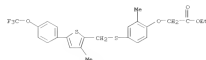
RN 476154-14-0 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-methyl-5-[4-(trifluoromethyl)phenyl]-3-thienyl]methyl]thio]phenyl]- (PC1) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)

thienyl]methyl]-2-methylphenyl]-, ethyl ester (PC1) (CA INDEX NAME)



RN 476154-87-7 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]-, ethyl ester (PC1) (CA INDEX NAME)



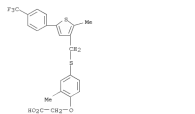
IT 476154-11-7P 476154-12-8P 476154-13-9P
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476154-29-7P 476154-31-1P 476154-55-9P
476154-56-0P 476154-57-2P 476154-58-2P
476154-59-2P 476154-60-4P 476154-61-7P
476154-62-8P 476154-63-7P 476154-73-9P
476154-72-0P 476154-75-2P 476154-76-4P
476154-80-0P 476154-82-0P 476154-88-9P
476154-89-9P 476154-90-2P 476154-91-2P
476154-92-0P 476154-93-2P 476154-94-4P
476154-95-7P 476154-96-8P 476154-97-9P
476154-99-0P 476154-99-2P 476155-00-7P
476155-01-0P 476155-02-9P 476155-03-0P
476155-04-1P 476155-05-2P 476155-09-4P
476155-10-3P 476155-11-0P 476156-38-4P
476156-52-2P 476156-54-4P

R1: PAC (Pharmacological activity); SPH (Synthetic preparation); THP (Therapeutic use); BUL (Biological study); PREP (Preparation); RACT (Reagent or reagent); OSES (Uses) (preparation of furan and thiophene deriva. that activate human

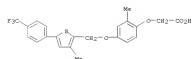
proliferator activated receptors)

RN 476154-11-7 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]- (PC1) (CA INDEX NAME)

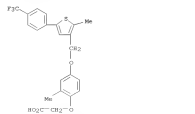
119 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)



RN 476154-22-9 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]- (PC1) (CA INDEX NAME)

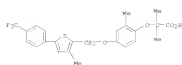


RN 476154-23-3 CAPLUS
CN Acetic acid, [2-methyl-4-[[[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]- (PC1) (CA INDEX NAME)

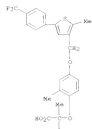


RN 476154-29-7 CAPLUS
CN Propionic acid, [2-methyl-4-[[[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]- (PC1) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLTS COPYRIGHT 2007 ACS on STN (Continued)

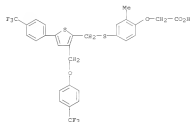


XN 476154-31-1 CAS/US
 CN Propanoic acid, 2-methyl-2-[[2-methyl-4-[[2-methyl-5-[[4-(
 (trifluoromethyl)phenyl]-3-thienyl]methoxy]phenoxy]- (9CI) (CA INDEX
 NAME)

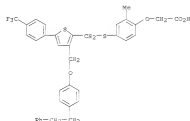


J20 476154-55-9 CAPLUS
 C20 Acetic acid, [2-methyl-4-[[[3-[[[1-methylethyl]thio]methyl]-5-[4-
 [trifluoromethyl]phenyl]-2-thienyl]methyl]thio]phenoxy]- (9CI) (CA INDEX
 NAME)

110 ANSWER 9 OF 12 CAPTIONS COPYRIGHT 2007 ACS on 579 (Continued)



476154-59-3 CASRN
 Acetic acid, [2-methyl-4-[[[3-[[4-(2-phenylethyl)phenoxy]methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

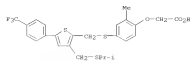


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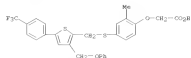
NN      476194-60-6  CAPLUS
CN      Acetic acid,
[2-methyl-4-[[[3-[[[4'-methyl[2,2'-biphenyl]-4-yl]oxy)methyl]-
5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenoxy]-
INDEX NAME)

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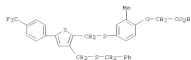
L18 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



JN 476154-56-Q CAPLUS
 CN Acetic acid, [2-methyl-4-[[[3-(phenoxymethyl)-5-[4-(trifluoromethyl)phenyl]-2-thienyl)methyl]thio]phenoxy]-(9CI) (CA INDEX NAME)

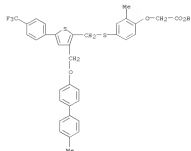


FN 476154-57-1 CAPLUS
 CN Acetic acid, [2-methyl-4-[[[3-[[[phenylmethyl]thio]methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenoxy]- (SCl) (CA INDEX NAME)

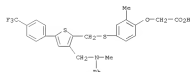


IN 476154-58-2 CAPLOS
 CN Acetic acid, [2-methyl-4-[[[3-[4-(trifluoromethyl)phenoxy]methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenoxy]- (SC1) (CA INDEX NAME)

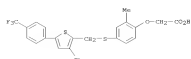
110 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IN 476154-61-7 CAPLOS
 CN Acetic acid, [2-methyl-4-[[[3-[[(methoxyphenylamino)methyl]-5-[4-(trifluoromethyl)phenyl]-2-thieryl]methyl]thio]phenoxy]- (SC1) (CA INDEX NAME)



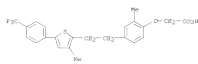
EN 476154-62-8 CAPL08
 CN Acetic acid, [4-[[[2-ethyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]-2-methylphenoxy]- (9CI) (CA INDEX NAME)



899 476154-67-3 CAPL08

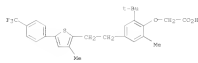
118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CH Acetic acid, [2-methyl-6-[2-(3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl)ethoxy]phenyl]- (9CI) (CA INDEX NAME)



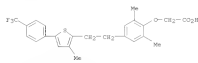
HN 476154-71-9 CAPLUS

CH Acetic acid, [2-(1,1-dimethyl-3-(4-[2-(3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl)ethoxy]phenyl)-2-thienyl)ethoxy]phenyl]- (9CI) (CA INDEX NAME)



HN 476154-72-0 CAPLUS

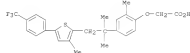
CH Acetic acid, [2,4-dimethyl-6-[2-(3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl)ethoxy]phenyl]- (9CI) (CA INDEX NAME)



HN 476154-75-3 CAPLUS

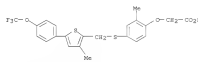
CH Acetic acid, [2-methyl-6-[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]phenyl]- (9CI) (CA INDEX NAME)

119 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



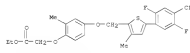
HN 476154-88-8 CAPLUS

CH Acetic acid, [2-methyl-6-[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]thio]phenyl]- (9CI) (CA INDEX NAME)



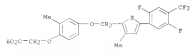
HN 476154-89-9 CAPLUS

CH Acetic acid, [4-[15-[2,5-difluoro-4-(trifluoromethyl)phenyl]-3-methyl-2-thienyl]methoxy]-2-methylphenoxyl-, ethyl ester (9CI) (CA INDEX NAME)



HN 476154-90-2 CAPLUS

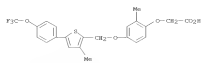
CH Acetic acid, [4-[15-[2,5-difluoro-4-(trifluoromethyl)phenyl]-3-methyl-2-thienyl]methoxy]-2-methylphenoxyl-, (9CI) (CA INDEX NAME)



HN 476154-91-3 CAPLUS

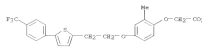
CH Acetic acid, [4-[15-[2,5-difluoro-4-(trifluoromethyl)phenyl]-3-methyl-2-thienyl]methoxy]-2-methylphenoxyl-, ethyl ester (9CI) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



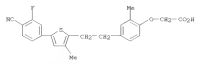
HN 476154-76-4 CAPLUS

CH Acetic acid, [2-methyl-6-[2-[5-[4-(trifluoromethyl)phenyl]-2-thienyl]ethoxy]phenoxyl]- (9CI) (CA INDEX NAME)



HN 476154-80-0 CAPLUS

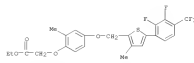
CH Acetic acid, [4-[2-[5-[4-oxo-3-fluorophenyl]-3-methyl-2-thienyl]ethyl]-2-methylphenoxyl]- (9CI) (CA INDEX NAME)



HN 476154-82-2 CAPLUS

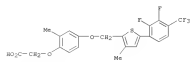
CH Acetic acid, [2-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]ethyl]-2-methylphenoxyl]- (9CI) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



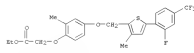
HN 476154-92-4 CAPLUS

CH Acetic acid, [4-[15-[2,3-difluoro-4-(trifluoromethyl)phenyl]-3-methyl-2-thienyl]methoxy]-2-methylphenoxyl-, (9CI) (CA INDEX NAME)



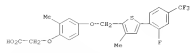
HN 476154-93-5 CAPLUS

CH Acetic acid, [4-[15-[2-fluoro-4-(trifluoromethyl)phenyl]-3-methyl-2-thienyl]methoxy]-2-methylphenoxyl-, ethyl ester (9CI) (CA INDEX NAME)



HN 476154-94-6 CAPLUS

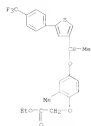
CH Acetic acid, [4-[15-[2-fluoro-4-(trifluoromethyl)phenyl]-3-methyl-2-thienyl]methoxy]-2-methylphenoxyl-, (9CI) (CA INDEX NAME)



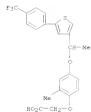
HN 476154-95-7 CAPLUS

CH Acetic acid, [2-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]ethoxy]phenoxyl-, ethyl ester (9CI) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

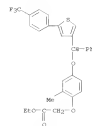


XX 476154-96-8 CAPLUS
 CN Acetic acid, [2-methyl-4-[1-[5-[4-(trifluoromethyl)phenyl]-3-thienyl]methoxy]phenoxy]- (PCI) (CA INDEX NAME)

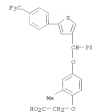


XX 476154-97-9 CAPLUS
 CN Acetic acid, [2-methyl-4-[phenyl]-5-[4-(trifluoromethyl)phenyl]-3-thienyl]methoxy]phenoxy]-, ethyl ester (PCI) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



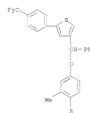
XX 476154-98-0 CAPLUS
 CN Acetic acid, [2-methyl-4-[phenyl]-5-[4-(trifluoromethyl)phenyl]-3-thienyl]methoxy]phenoxy]- (PCI) (CA INDEX NAME)



XX 476154-99-1 CAPLUS
 CN Propanoic acid, 2-methyl-2-[2-methyl-4-[phenyl]-5-[4-(trifluoromethyl)phenyl]-3-thienyl]methoxy]phenoxy]-, ethyl ester (PCI) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

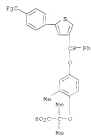
PAGE 1-A



PAGE 2-A



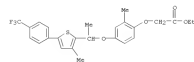
XX 476155-02-7 CAPLUS
 CN Propanoic acid, 2-methyl-2-[2-methyl-4-[phenyl]-5-[4-(trifluoromethyl)phenyl]-3-thienyl]methoxy]phenoxy]- (PCI) (CA INDEX NAME)



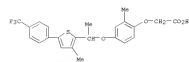
XX 476155-03-8 CAPLUS

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

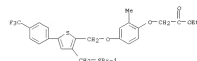
XX 476155-02-9 CAPLUS
 CN Acetic acid, [2-methyl-4-[1-[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]phenoxy]-, ethyl ester (PCI) (CA INDEX NAME)



XX 476155-02-9 CAPLUS
 CN Acetic acid, [2-methyl-4-[1-[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]phenoxy]- (PCI) (CA INDEX NAME)

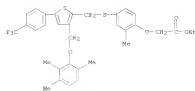


XX 476155-03-8 CAPLUS
 CN Acetic acid, [2-methyl-4-[[3-[[1-methylethyl]thio]methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]phenoxy]-, ethyl ester (PCI) (CA INDEX NAME)

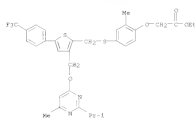


XX 476155-04-1 CAPLUS
 CN Acetic acid, [2-methyl-4-[[3-[[4-(trifluoromethyl)phenyl]-3-[[2,3,4-trimethylphenoxy]methyl]-2-thienyl]methoxy]phenoxy]-, ethyl ester (PCI) (CA INDEX NAME)

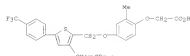
118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



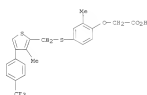
476155-03-2 CAPLUS
 CN Acetic acid, [2-methyl-6-[[[3-[[[4-methyl-2-(3-methylethyl)-4-pyridinyl]oxy]methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]thio]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



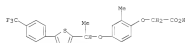
476155-09-6 CAPLUS
 CN Acetic acid, [2-methyl-6-[[[3-[[[3-methylethyl]thio]methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]phenyl]-, (9CI) (CA INDEX NAME)



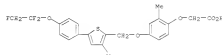
119 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



476156-12-2 CAPLUS
 CN Acetic acid, [2-methyl-6-[[[5-[4-(trifluoromethyl)phenyl]-2-thienyl]ethoxy]phenyl]-, (9CI) (CA INDEX NAME)



476156-14-4 CAPLUS
 CN Acetic acid, [2-methyl-6-[[[3-methyl-5-[4-[1,1,2-trifluoroethoxy]phenyl]-2-thienyl]methoxy]phenyl]-, (9CI) (CA INDEX NAME)

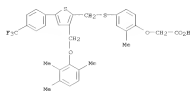


476156-02-1P 476156-03-3P 476156-03-3P
 476156-07-TP
 RL: NCT (Nucleoside); SHN (Synthesis preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of Oxan and thiophene derivs. that activate human peroxisome proliferator activated receptors)

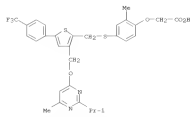
476156-03-1 CAPLUS
 CN Benzonitrile, 2-fluoro-6-[4-methyl-5-[2-[3-methyl-4-[1-(4-methyl-2,6,7-trioxabicyclo[2.2.2]non-2-yl)methoxy]phenyl]methyl]-2-thienyl]-, (9CI) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

476155-10-9 CAPLUS
 CN Acetic acid, [2-methyl-6-[[[5-[4-(trifluoromethyl)phenyl]-3-[1,2,4-trimethylphenyl]methyl]-2-thienyl]methoxy]thio]phenyl]-, (9CI) (CA INDEX NAME)



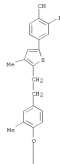
476155-11-0 CAPLUS
 CN Acetic acid, [2-methyl-6-[[[3-[[[4-methyl-2-(3-methylethyl)-4-pyridinyl]oxy]methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl]methoxy]thio]phenyl]-, (9CI) (CA INDEX NAME)



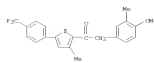
476156-38-4 CAPLUS
 CN Acetic acid, [2-methyl-6-[[[3-methyl-6-[4-(trifluoromethyl)phenyl]-2-thienyl]methyl]thio]phenyl]-, (9CI) (CA INDEX NAME)

118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



476156-03-2 CAPLUS
 CN Hexanone, 2-(4-methoxy-3-methylphenyl)-3-[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-thienyl]-, (9CI) (CA INDEX NAME)

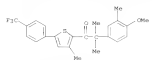


476156-05-5 CAPLUS

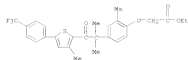
PAGE 2-A



118 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1-Propanone, 2-[4-methoxy-3-methylphenyl]-2-methyl-1-[3-methyl-5-[4-
[trifluoromethyl]phenyl]-2-thienyl]- (9CI) (CA INDEX NAME)



329 476156-Q7-7 CAPLUS
 C3 Acetic acid,
 4-[1,1-dimethyl-2-[3-methyl-5-[4-(trifluoromethyl)phenyl]-2-
 thienyl]-2-oxoethyl]-2-methylphenoxy]-, ethyl ester (PCI) [CA INDEX
 NAME]



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

118 ANSWER 10 OF 12 CAPLOS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:793403 CAPLOS
DOCUMENT NUMBER: 137:310931
TITLE: Preparation of phenylalkanoic acid derivatives as

INVENTOR(S): Horie, Tatsuo; Shisoda, Masanobu; Ezori, Eita;
Matsura, Fumiyoshi; Kaneko, Toshiniko; Chi,
Norihito;

Kasai, Shunji; Yoshitomi, Hideki; Yamazaki, Kazuo;
Miyashita, Sadakazu; Nishida, Taro; Seiki, Takashi;
Clark, Richard; Harada, Hitoshi

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
SOURCE: PCT Int. Appl., 344 pp.
CODEN: PIXAD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATIENT INFORMATION					
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94	1980-01-01	95	1980-01-01	96	1980-01-01
97	1980-01-01	98	1980-01-01	99	1980-01-01
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142	1980-01-01	143	1980-01-01	144	1980-01-01
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148	1980-01-01	149	1980-01-01	150	1980-01-01

[illegible]

JP 2001-105131 A 20010403

DOI: 10.1002/for

OTHER SOURCE(S): MARPAT 137-310931



AB Disclosed is a preventive/remedy for digestive tract or inflammatory disease, which contains as the active ingredient a novel carboxylic acid derivative represented by the following formula [I; R1 = H, CH₃, each (unsubstituted, C1-6 alkyl, C1-6 alkoxy, C1-6 alkythio, C1-6 hydroxyalkyl, C1-6 hydroxyalkoxy, C1-6 hydroxyalkylthio, C1-6 aminoalkyl,

118 ANSWER 10 OF 12 CARLOS COPYRIGHT 2007 ACS ON STN (Continued)
C1-6 aminoalkoxy, C1-6 aminoalkylthio, C2-12 alkoxyalkyl, C3-7
cycloalkyl,
C3-7 cycloalkoxy, C3-7 cycloalkylthio, C2-6 alkanyl, C2-6 alkenyloxy,
or
C1-6 alkenylthio, etc.; L = a single or double bond, each (un)substituted
C1-6 alkylene, C2-6 alkenylene, or C2-6 alkynylene; M = a single bond,
each (un)substituted C1-6 alkylene, C2-6 alkenylene, or C2-6 alkynylene

* = a single bond, each (un)substituted C1-3 alkylene, C2-3 alkenylene, or C2-3 alkynylene; W = 2,4-dioxothiazolidin-5-yl, 2,4-dioxothiazolidin-5-ylidene, carboxy, (un)substituted CONH2; X = (un)substituted C2-6 thienylene, benzoxymethylene, OR, OR', M = (un)substituted CONH, NHOR

HMO2, or HMO3 (C = 0, S; Y = α -unsaturated C3-12 aron. hydrocarbyl or C3-7 aliph. hydrocarbyl; optionally contg. 21 heteroatoms; ring E = C5-6 aron. hydrocarbyl; Y = α -unsaturated aron. hydrocarbon group optionally contg. 21 heteroatoms; some provisions given), a salt of the deriv., or a hydrate of either. The above digestive tract diseases include (1) inflammatory digestive tract diseases, (2) digestive colitis, Crohn's disease, pancreatitis, and gastritis, (3) digestive tract

proliferative diseases such as digestive tract benign tumors, digestive tract polyp, hereditary (genetic) polyposis syndromes, colon cancer, rectum cancer, and stomach cancer, and (3) digestive tract ulcerous diseases such as duodenal ulcer, stomach ulcer, esophagus ulcer, regurgitant esophagitis, stress ulcer or erosion, erosion caused by drugs.

and Zollinger-Ellison syndromes. The above inflammatory diseases include arthritis rheumatism, multiple sclerosis, immunodeficiency, cachexia, osteoarthritis, osteoporosis, asthma, and allergy. The compounds 1 are tripe agonists for PPAR [peroxisome proliferator-activated receptor] α , β , and γ subtypes. Thus,

2-isopropoxy-7-[4-methoxy-3-[[[4-(trifluoromethyl)benzyl]amino]carbonyl]phenyl]propanoic acid in vitro showed the transcription activity for PPAR α , β , and γ with EC₅₀ of 0.09, 2.513, and

0.388 mg/kg resp in C₁-cell. (18): 3- β -[3- β -(12,4-dichlorobenzo[2,5]pyrazol-1-yl)ethyl-4-methoxyphenyl]-2-isopropoxypropionic acid at 1 mg/kg/day p.o. for 3 days showed no adverse activity index based on blood chemistry, blood sediment, and feces (Table 1). 2.8, 0.3 mg/kg mice suffering from colitis induced by dextran sulfate sodium salt vs. 2.8, 0.1 for the control group and 2.1, 0.1 for the mice treated with resiquizone at 30 mg/kg/day. Many compounds, prepd. do not possess the thiazolidine skeleton and thereby may completely avoid toxicity such as liver disorder which was noted in the past as a problem for compounds.

IT 334012-36-1P 334012-37-2P 334012-42-3P

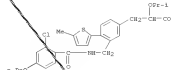
334012-43-CP 4012-54-SP 334012-60-IP
K1: PAM (Pharmacological activity); SPN (Synthetic preparation); TNU
(Therapeutic use); B1OL (Biological study); PREP (Preparation); USES
(Uses)
[regeneration of uricallanonic acid derivs. as peroxisome

proliferator-activated receptor agonists and remedial or preventive agents for digestive tract or inflammatory diseases)

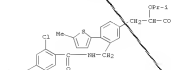
M3 334012-36-1 CAPSULE

C2 Benzenehexapropionic acid, 3-[[(2-chloro-4-propoxybenzoyl)amino]methyl]-
N,N-dimethyl-N-(2-methoxyphenyl)-D,L-isomer (C₂₇H₂₉ClNO₈) (CAS No. 334012-36-1)

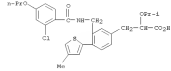
110 ANSWER 10 OF 12 CAPLOS COPYRIGHT 2007 ACS on STW (Continued)



IN 334012-37-2 CAPLUS
 CN Benzenepropanoic acid,
 3-[[[2-chloro-4-(2-methylethoxy)benzoyl]amino]methyl
]-α-[1-methyl-2-(oxo)-4-(5-methyl-2-thienyl)- (9CI) (CA INDEX NAME)

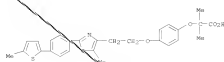


334012-42-9 CAPLOS
Benzenepropanoic acid, 3-[[[2-chloro-4-(propoxybenzoyl)amino]methyl]-
a-(1-methylethoxy)-4-(4-methyl-2-thienyl)-5-yl] (CA INDEX NAME)



RD 334012-43-0 CAPLOS
 CN Benzenepropanoic acid,
 3-[[[2-chloro-4-(1-methylethoxy)benzoyl]amino]methy
 1]- α -(1-methylethoxy)-4-(4-methyl-2-thienyl)- (9CI) (CA INDEX NAME)

FIG. 10: ARIMA 12 OF 12 CAPSULE COPYRIGHT 2007 ACS on STN (Continued)

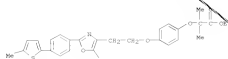


3T 338920-Q2-1

KL: NCT (Reactant); NCT (Reactant or reagent)
Reactant; preparation of a methyl ester (Bisacrole PFAS modulators by
coupling bisarylmethylaldehyde tosylates with alcohols or thiols)

3H 338920-Q2-1 CAPSULE

CH Propanoic acid, 2-methyl-2-[4-(2-methyl-2-[4-(5-methyl-2-
thienyl)phenyl]-4-oxo-1,2,3,4-tetrahydropyridine-5-yl)-ethyl ester (PCE) (CA INDEX
3086)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE SE

FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:49:07 ON 05 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:49:20 ON 05 SEP 2007

L1 STRUCTURE UPLOADED
L2 50 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3
L5 21110 S L3 FULL
L6 STRUCTURE UPLOADED
L7 STRUCTURE UPLOADED
L8 12969 S L7 FULL SUB=L5
L9 STRUCTURE UPLOADED
L10 12463 S L9 FULL SUB=L8
L11 STRUCTURE UPLOADED
L12 STRUCTURE UPLOADED
L13 937 S L11 FULL SUB=L10
L14 428 S L12 FULL SUB=L10

FILE 'CAPLUS' ENTERED AT 12:01:42 ON 05 SEP 2007

L15 246 S L13
L16 88 S L14
L17 262 S L15 OR L16
L18 12 S L17 AND PPAR

=> s l17 not l18
L19 250 L17 NOT L18

=> s l19 and AP<2004
'2004' NOT A VALID FIELD CODE
0 AP<2004
L20 0 L19 AND AP<2004

=> d ibib abs hitstr L19 1-250

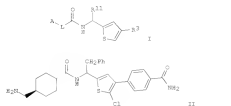
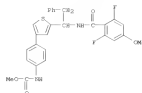
AL13 ARJEMER 1 OF 230 CARLOS COPYRIGHT 2007 ACS ON STM
 APPLICATION NUMBER: 2007:673463 CARLOS
 DOCUMENT NUMBER: 147:95531
 TITLE: Preparation of thiophene derivatives as Factor Xla
 inhibitors
 INVENTOR(S): Ray, Mei
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
 SOURCE: PCT Int. Appl., 145pp.
 CODE(S): P10K02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTRY: 1

[illegible]

PRIORITY: 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
 08 2005-750131P P 20051214
 OTHER SOURCE(S): MASPAT 147:95531
 GL

[illegible]

CR phenylacetic acid, N-[4-[5-[1-[[2,6-difluoro-6-methoxybenzoyl]amino]-2-phenylethyl]-3-thienyl]phenyl]-, methyl ester (CA INDEX NAME)



119 ANMER 2 OF 25 CAPLUS COPYRIGHT 2007 ACS on S78
 accession number: 2007.501976 CAPLUS
 document number: 147143024
 title:
 AUTHOR(S):
 Renewable PEG-supported Copper Catalyst for Highly
 Stereoccontrolled Nitroalkol Condensation
 (Pondino, Marco; Pizzarello, Mariacristina; Riccardio,
 Tormaso; Simonio, Orsini-Fonchetti, Achille;
 Dipartimento di Chimica G. Ciamician, Universita di
 Bologna, Bologna, Italy)
 SOURCE:
 Organic Letters (2007), 9(13), 2352-2353
 CODEN: ORLETT; ISSN: 1523-7066
 PUBLISHER:
 American Chemical Society
 DOCUMENT TYPE:
 Journal
 LANGUAGE:
 English
 COUNTRY(S):
 ITALY
 CAPLUS 147.143024

A2 A new Co(OMe)₂ complex with poly(ethylene glycol)-modified unsym. 1,2-bis-(thienylamino)cyclohexane smoothly catalyzes a base-free nitroaldol condensation of aldehydes RCHO (R = Me, Et, cyclohexyl, Ph, 4-FC₆H₄, n-heptyl, etc.) with n-butoxane in a highly enantioselective manner (see up to 934) in reagent-grade solvent and in the presence of

A11. Effective recovery and recycling (up to five runs) of supported catalysts

IT 943348-25-2P
 RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
 USXS (Uses)

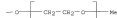
laser synthesis of vicinal nitriles via highly stereoccontrolled
nitroaldehyde condensation of aldehydes with nitromethane using
recoverable poly(ethylene glycol)-supported copper catalyst:

943348-2 CASUS

Poly[1,2-ethanediyl], a-methyl-a-hydroxy-, ether with
[5-[[3-bis(ethoxycarbonyl)-4-[3-[[4-[5-[[1,2,3,2,2'-bithiophen]-
2-ylmethyl]amino-methyl]cyclohexyl]amino-methyl]methyl]-2-
thienyl]phenoxy]propyl]phenol]copper [CA INDEX NAME]

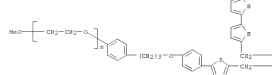
119 ANSWER 2 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-8

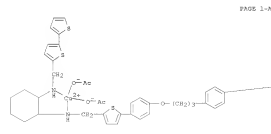


17 943241-69-8
 EL: RCT (Reactant); RACT (Reactant or reagent)
 (asyn. synthesis of vicinal nitro alcs. via highly sterecontrolled
 nitroalcohol condensation of aldehydes with nitromethane using
 recoverable poly(ethylene glycol)-supported copper catalyst:
 EN 943241-69-8 CAPLOS
 PLY[oxy-1,3-ethanediyl], n=[4]-[3-4]-[5-1]([13F,2R)-2-[[1(2',2'-
 CH hydroxy]-3-ylmethyl)amino]cyclohexyl]aminoethyl-3-
 thienylphenoxyp[ropyl]phenyl]-n-methoxy- [CA INDEX NAME]

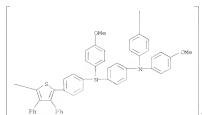
PAGE 1-8



PAGE 1-8



L19 ANSWER 3 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

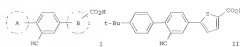
L19 ANSWER 4 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2007:437906 CAPLUS
 DOCUMENT NUMBER: 1461441670
 TITLE: Preparation of 2-phenylisomictroic acid derivatives as xanthine oxidase inhibitors
 INVENTOR(S): Sato, Shunji; Matsui, Kazuyuki; Kubota, Hiromasa; Murakami, Ryosuke; Asano, Tetsu; Watanabe, Junko; Kawakami, Masahito; Sawabe, Masahito
 PATENT ASSIGNOR(S): Antalis Pharma Inc., Japan
 SOURCE: ICT Int. Appl., 6pp.
 COBRI: P1423
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007043447	A1	20070413	NO 2006-0720861	20061008
WI, AU, AG, AL, AM, AT, AU, AC, BA, BB, BG, BR, BY, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MC, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, OS, PA, PE, PG, PH, PL, PT, RU, SA, SE, SI, SK, SL, SM, SN, SR, ST, SV, TH, TM, TR, TT, TZ, UA, US, UY, VE, VN, ZA, ZM, ZW				
BM, AT, BE, BG, CH, CY, CZ, DE, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MC, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, OS, PA, PE, PG, PH, PL, PT, RU, SA, SE, SI, SK, SL, SM, SN, SR, ST, SV, TH, TM, TR, TT, TZ, UA, US, UY, VE, VN, ZA, ZM, ZW				
BM, AT, BE, BG, CH, CY, CZ, DE, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MC, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, OS, PA, PE, PG, PH, PL, PT, RU, SA, SE, SI, SK, SL, SM, SN, SR, ST, SV, TH, TM, TR, TT, TZ, UA, US, UY, VE, VN, ZA, ZM, ZW				

PRIORITY APPL. INFO.: JP 2005-295740 A 20051007

OTHER SOURCE(S): NAJPAT 146:441670
 GI



AB The title compds. 2-phenylisomictroic acid deriva. I [wherein A = (un)substituted aryl or heterocaryl; B = (un)substituted heterocaryl] or salts thereof are prepared as xanthine oxidase inhibitors for the treatment of hyperuricemia, gout, inflammatory bowel disease, diabetic neuropathy, diabetic retinopathy, etc. For example, the compound II was prepared in a multi-step synthesis. II showed inhibitory activity with IC50 of 0.1 nM

L19 ANSWER 5 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

ACCESSION NUMBER: 2007:410784 CAPLUS
 DOCUMENT NUMBER: 146431928
 TITLE: Preparation of pharmacological derivatives as ligands of xanthine oxidase inhibitors
 INVENTOR(S): Agt, Ewald; Krasch, Reme
 PATENT ASSIGNOR(S): Novartis Biopharmaceuticals AG, Germany
 SOURCE: ICT Int. Appl., 6pp.
 COBRI: P1423
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

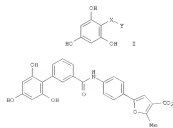
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007039112	A1	20070412	WO 2006-EP91517	20060920
WI, AU, AG, AL, AM, AT, AU, AC, BA, BB, BG, BR, BY, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MC, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, OS, PA, PE, PG, PH, PL, PT, RU, SA, SE, SI, SK, SL, SM, SN, SR, ST, SV, TH, TM, TR, TT, TZ, UA, US, UY, VE, VN, ZA, ZM, ZW				
BM, AT, BE, BG, CH, CY, CZ, DE, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MC, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, OS, PA, PE, PG, PH, PL, PT, RU, SA, SE, SI, SK, SL, SM, SN, SR, ST, SV, TH, TM, TR, TT, TZ, UA, US, UY, VE, VN, ZA, ZM, ZW				

PRIORITY APPL. INFO.: EP 2005-205095 A 20050920

OTHER SOURCE(S): NAJPAT 146:421829



AB The title pharmacological deriva. I [wherein X = -(CH2)n-(H2n-C)-C(=O)-, -l-(H2n-C)-C(=O)-, or -l-(CH2)p-C(=O)-; Y = -(H2n-C)-C(=O)-; Z = -(CH2)n- or -l-(H2n-C)-C(=O)-, or -l-(CH2)p-C(=O)-; n = 1-6; p = 1-6]

119 ANSWER 5 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 [hetero]rang; n = 0 or 1; n = 1-2; p = 0-2; T = O, S, or 2S; Z =
 substituted [hetero]aryl, or pharmaceutically acceptable salts, esters,
 amides, or prodrugs thereof were prepd. as ligands to modulate the
 binding
 processes mediated by E, P, or L-selectins. For example, II was prepd.
 in a multi-step synthesis. II showed inhibitory activity against the
 binding of E, P, or L-selectins with IC50 data of 7.9, 5.2, and 6.1
 μ M, resp. The compds. are useful for treatment of chronic obstructive
 pulmonary disease, acute lung injury, chronic inflammatory diseases,
 autoimmune diseases, etc. [No data].

IT 934247-53-1P 934247-50-6P
 R1 RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); NACT
 (Reactant or reagent)
 (Intermediary preparation of phloroglucinol derivs. as ligands of
 selectins)

RU 934247-50-3 CAPLUS
 CH 2-Thiophenecarboxylic acid, 5-[2-[[[2',4',6'-trimethoxy[[1,1'-biphenyl]-3-
 yl]ethoxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

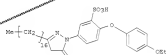


RU 934247-60-6 CAPLUS
 CH 2-Thiophenecarboxylic acid, 5-[2-[[[2',4',6'-trimethoxy[[1,1'-biphenyl]-3-
 yl]ethoxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

EOC-CH2-CH2-

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
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119 ANSWER 6 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 2007.097110 CAPLUS
 DOCUMENT NUMBER: 14843703
 TITLE: Synthesis and SAR studies of a novel class of S1P1
 receptor antagonists
 AUTHOR(S): Makamura, Tetsuaki; Yonezu, Kiyooki; Minaga, Juniko;
 Suzuki, Chie; Sakata, Yuko; Takano, Nobuhiro;
 Futsuhashi, Satoru; Sumino
 MEDICAL SOURCE: Medicinal Chemistry Research Laboratories, Sanofi
 Co.,
 SOURCE: Ltd, Shinagawa-Ku, Tokyo 140-0710, Japan
 Bioorganic & Medicinal Chemistry (2007), 15(10),
 3548-3564
 PUBLISHER: Elsevier and
 DOCUMENT TYPE: Synthesis
 LANGUAGE: English
 GI



AB A series of Sodium
 4-[[4-(ethoxyphenyl)thio]-2'-substituted-1,1'-biphenyl]-3-
 sulfonates were identified as functional sphingosine-1-phosphate (S1P)
 antagonists with selectivity for the S1P1 receptor subtype starting from
 chemical lead 2 (I), which was found while screening our inhouse compound
 library. We performed chemical modifications on each regional structure
 of
 compound 2, for example, on the three ring compartments, the benzyl
 substituents, and the long alkyl chain part. The introduction of a
 biphenyl distal structure and the installation of a hydroxyl group onto
 the terminal carbon in the side-chain region resulted in the potent
 sensitive
 21c, which showed >500-fold more potent S1P1 inhibitory activity than
 lead
 compound 2. We report herein the synthesis and structure-activity
 relationships of structurally novel S1P1 receptor antagonists.

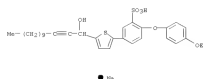
IT 936833-96-1P
 R1 RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); NACT
 (Reactant or reagent)
 (Diethylphenylsulfonates as S1P1 receptor antagonists)

RU 936833-13-5 CAPLUS
 CH Benzenesulfonic acid, 2-(4-ethoxyphenoxy)-5-[5-(1-hydroxy-2-undecyloxy-1-yl)]-
 (CA INDEX NAME)

RU 936833-96-1 CAPLUS
 CH Benzenesulfonic acid,
 2-(4-ethoxyphenoxy)-5-[5-(1-hydroxy-2-undecyloxy-1-yl)]-

119 ANSWER 5 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

119 ANSWER 6 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 2-thienyl]-, sodium salt (1:1) (CA INDEX NAME)



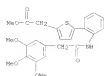
IT 936833-13-5P
 R1 RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); NACT
 (Reactant or reagent)
 (Diethylphenylsulfonates as S1P1 receptor antagonists)

RU 936833-13-5 CAPLUS
 CH Benzenesulfonic acid, 2-(4-ethoxyphenoxy)-5-[5-(1-hydroxy-2-undecyloxy-1-yl)]-
 (CA INDEX NAME)

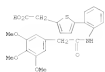
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR
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 RECORD. ALL CITATIONS AVAILABLE IN THE RE
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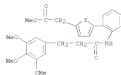
L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



321 934176-27-3 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(3,4,5-trimethoxyphenyl)propyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

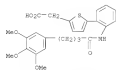


321 934176-29-1 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(3,4,5-trimethoxyphenyl)propyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

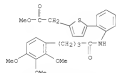


321 934176-31-5 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(3,4,5-trimethoxyphenyl)propyl]amino]phenyl]- (CA INDEX NAME)

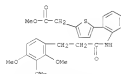
L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



321 934176-48-4 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(2,3,4-trimethoxyphenyl)butyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

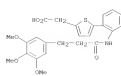


321 934176-50-8 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(2,3,4-trimethoxyphenyl)propyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

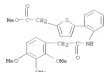


321 934176-51-8 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(2,3,4-trimethoxyphenyl)propyl]amino]phenyl]- (CA INDEX NAME)

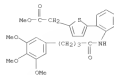
L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



321 934176-43-9 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(2,3,4,5-trimethoxyphenyl)butyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

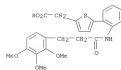


321 934176-44-2 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(3,4,5-trimethoxyphenyl)butyl]amino]phenyl]-, methyl ester (CA INDEX NAME)



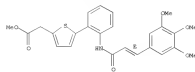
321 934176-45-1 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(3,4,5-trimethoxyphenyl)butyl]amino]phenyl]- (CA INDEX NAME)

L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



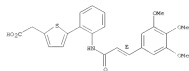
321 934176-52-0 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(2,3,4,5-trimethoxyphenyl)-2-propen-1-yl]amino]phenyl]-, methyl ester (CA INDEX NAME)

Double bond geometry as shown.



321 934176-52-1 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(2,3,4,5-trimethoxyphenyl)-2-propen-1-yl]amino]phenyl]- (CA INDEX NAME)

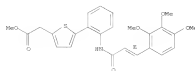
Double bond geometry as shown.



321 934176-54-4 CAPLUS
CN 2-Thiophenecetic acid, 5-[2-[[1-oxo-3-(2,3,4,5-trimethoxyphenyl)-2-propen-1-yl]amino]phenyl]-, methyl ester (CA INDEX NAME)

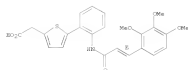
Double bond geometry as shown.

L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

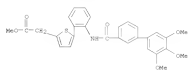


321 934176-57-5 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(12E)-1-oxo-3-(2,3,4-trimethoxyphenyl)-2-propeno-1-yl]amino]phenyl]-, methyl ester (CA INDEX NAME)

Isolable band geometry as shown.

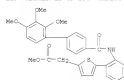


321 934176-59-7 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(13',4',5'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

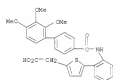


321 934176-63-3 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(12',3',4'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

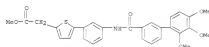
L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



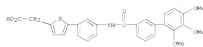
321 934176-72-4 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(12',3',4'-trimethoxy[1,1'-biphenyl]-4-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)



321 934176-74-8 CAPLUS
CN 2-Thiopheneacetic acid, 5-[3-[(12',3',4'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

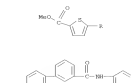


321 934176-77-9 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(12',3',4'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

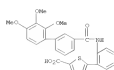


321 934176-81-5 CAPLUS

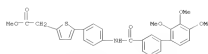
L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



321 934176-84-4 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(12',3',4'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

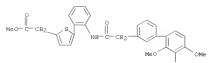


321 934176-88-8 CAPLUS
CN 2-Thiopheneacetic acid, 5-[4-[(12',3',4'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

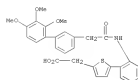


321 934176-71-3 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(12',3',4'-trimethoxy[1,1'-biphenyl]-4-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)

L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
CN 2-Thiopheneacetic acid, 5-[2-[(12',3',4'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)



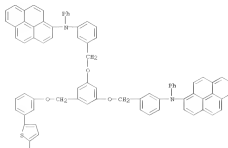
321 934176-82-6 CAPLUS
CN 2-Thiopheneacetic acid, 5-[2-[(12',3',4'-trimethoxy[1,1'-biphenyl]-3-yl)oxycarbonyl]amino]phenyl]-, methyl ester (CA INDEX NAME)



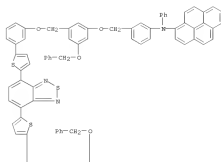
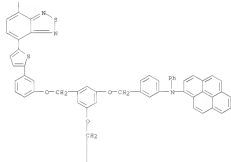
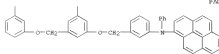
REFERENCE COUNT: 87 THERE ARE 87 CITED REFERENCES FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

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L19 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

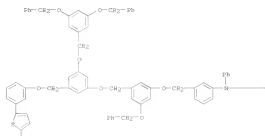


L19 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
PAGE 3-A

[illegible]

119 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



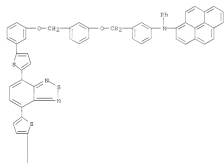
119 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 3-A

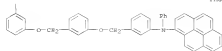


901842-03-0 CAPLUS
 CH 1-pyrenamine, N,N'-[2,1,3-benzothiadiazole-4,7-diylbis(5,2-thiophenediyl-3,1-phenylene)succinyl]ene-3,1-phenylene]bis[N-phenyl]- (CA INDEX NAME)

PAGE 1-A



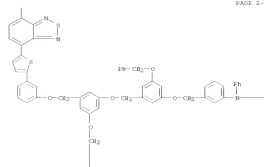
PAGE 2-A



901842-04-1 CAPLUS
 CH 1-pyrenamine, N,N'-[2,1,3-benzothiadiazole-4,7-diylbis(5,2-thiophenediyl-3,1-phenylene)succinyl]ene-3,1-phenylene]bis[N-phenyl]- (CA INDEX NAME)

119 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

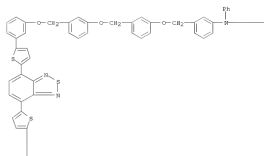


PAGE 2-B



119 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

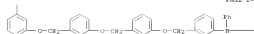
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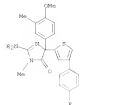
PAGE 1-B



PAGE 2-A



112 ANSWER 13 OF 250 CAPLES COPYRIGHT 2007 ACS on STN (Continued)



IT 938487-44-2P, 1-[5-[4-Fluorophenyl]thien-2-yl]-2-[4-methoxy-3-nitrophenyl]azela-1,2-dione 938487-48-6P, 1-[4-[4-Fluorophenyl]phenyl]-2-[4-methoxy-3-nitrophenyl]ethane-1,2-dione
 K1: JCT (Reactant); SYN (Synthetic preparation); PREP (Preparation); FACTS (Reactant or reagent)
 [preparation of amino betaine-arylindazoleone compds. as β -secretase modulators for treating diseases involving β -amyloid deposits and neurofibrillary tangles]

920487-44-2 CAPLOS
1,2-Ethanedione, 1-[5-(4-fluorophenyl)-2-thienyl]-2-(4-methoxy-3-methylphenyl)- (CA INDEX NAME)

Me

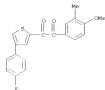
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F01  918487-48-6  CAPLUS
C01  1,2-Ethanedione, 1-[4-(4-fluorophenyl)-2-thienyl]-2-(4-methoxy-3-
      methylphenyl)- (CA INDEX NAME)

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L19 ANSWER 13 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



119 ANSWER 14 OF 250 CAPLUS COPYRIGHT 2007 ACS on 8784 (Continued)

their pharmacologically acceptable salts, isomers, and prodrugs thereof, are claimed. Example compound V was prepared by acylation of 2-acetyl-5-bromothiophene with Et trifluoroacetate; the resulting 1-(5-bromothiophen-2-yl)-4,4,4-trifluoroacetate, 3-oxo-2-oxazone cyclization with 2,5-dichlorophenylhydrazine hydrochloride to give 5-(5-bromothiophen-2-yl)-1-(2,5-dichlorophenyl)-3-trifluoromethyl-1H-pyrazole, which underwent Suzuki cross-coupling with 3-aminobenzophenylboronic acid to give compound II. All the inventions

it was detd. that several of the tested compds. exhibited IC50 values of

1 gM.

17 918315-43-2P 918315-45-6P 918315-51-2P
918315-64-7P 918317-96-1P 918317-97-2P
918319-99-0P 918321-56-9P

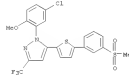
KL: PAC (Pharmacological activity); SPN (Synthetic preparation); TRU (Therapeutic use); BLOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of pyrazoles as LXR modulators and their use in the treatment of diseases)

FM 910315-43-2 CAPLOS

CN 18-Pyrazole,
1-[5-chloro-2-methoxyph

2-thienyl)-3-(trifl



FOI 918715-45-4 CAPLOS

CN 18-Pyrazole,

1-[5-chloro-2-phenoxyphenyl]-5-[5-[3-(methylsulfonyl)phenyl]-2-thienyl]-3-(isofluoromethyl)- (CA INDEX NAME)

119 ANSWER 14 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

APPLICATION NUMBER: 2007/14491 CAPLUS
 PRIORITY NUMBER: 146/121962
 TITLE: Pyrazole based LXR modulators and their preparation, pharmaceutical compositions and use in the treatment of diseases
 INVENTOR(S): Busch, Brest B. Flatt, Brenton T.; Gu, Xiao Rui; Martin, Richard; Mohan, Raju Nymn, Michael Charles; Schaefer, Edwin; Stevens, William C., Jr.; Wang, Tie

PATENT ASSIGNEE(S): Exelaxis, Inc., USA
SOURCE: PCT Int. Appl., 533pp., which covers patent

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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MO 2007002559 AL 20070104 MO 2006-0324749 20060626
W: AL, AG, AL, AM, A7, AO, AE, BA, BB, BG, BR, BW, BY, BE, CA, CB,
CC, CO, CR, CU, CE, DE, DG, DM, DE, EC, EE, EG, ES, FI, GB, GD,

GE, GB, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,

KR, KE, LA, LC, LE, LF, LG, LH, LI, LJ, MA, MD, ME, MF, MG, MH, MI, MN, MO, MP, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NO, NP, NR, NS, NT, NU, NV, NW, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

SC, SD, SE, SG, SX, SL, SM, SY, ~~SW~~, TN, TM, TR, TT, TE, UA, UG, 2-thienyl)-3-(trifl

[illegible]

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XG, KE, NG, ND, TJ, TM

PRIORITY APRIL INFO : 01 2004-484170 P 20050627

[illegible]

08 2005-736120P / P 20051110

OTHER SOURCE(S): MAPPAT 146:121962

15

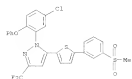
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Compsds. of the invention, such as compsds. of formulas I, II, III, and IV and pharmaceutically acceptable salts, isomers, and prodrugs thereof, which are useful as modulators of the activity of liver X receptors. Pharmaceutical compps. containing the compps. and methods of using the compps.

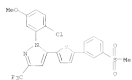
are also disclosed. Comps. of formulas I - IV wherein R1 is (un)substituted (hetero)aryl, (un)substituted alkyl, (un)substituted alkenyl, (un)substituted (thio)ethers, etc.; R2 and R21 are independently (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkylidyl,

H, halo, NO₂, CN, (hetero)aryl, etc.; R³ is (un)substituted alkyl, (un)substituted alkylidyl, (un)substituted alkenyl, (un)substituted acetyl, (un)substituted thioacetyl, etc.; G is (un)substituted (hetero)aryl, (un)substituted biaryl, (un)substituted alkoxy, etc.; ar

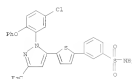
119 ANSWER 14 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



220 918315-51-2 CAPLUS
 CH 1*H*-Pyrazole,
 1-(2-chloro-5-methoxyphenyl)-5-[5-[3-(methylsulfonyl)phenyl]-
 2-thienyl]-3-(trifluoromethyl)- (CA INDEX NAME)

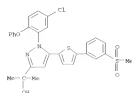


221 918315-64-7 CAPLUS
 CH Benzenesulfonamide,
 3-[3-[3-[5-chloro-2-phenoxyphenyl]-3-(trifluoromethyl)-
 1*H*-pyrazol-5-yl]-2-thienyl]- (CA INDEX NAME)

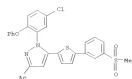


222 918317-96-1 CAPLUS
 CH 1*H*-Pyrazole-3-methanol, 1-(5-chloro-2-phenoxyphenyl)-*o*,*o*'-

119 ANSWER 14 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 dimethyl-1,5-[5-[3-(methylsulfonyl)phenyl]-2-thienyl]-



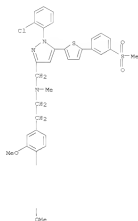
223 918317-97-2 CAPLUS
 CH Ethanone,
 2-[1-[5-(chloro-2-phenoxyphenyl)-5-[5-[3-(methylsulfonyl)phenyl]-
 2-thienyl]-1*H*-pyrazol-3-yl]- (CA INDEX NAME)



224 918319-99-0 CAPLUS
 CH 1*H*-Pyrazole-3-methanamine, 1-(2-chlorophenyl)-*N*-(2-[3,4-
 dimethoxyphenyl]ethyl)-*N*-methyl-5-[5-[3-(methylsulfonyl)phenyl]-2-thienyl]-
 (CA INDEX NAME)

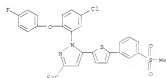
119 ANSWER 14 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



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225 918321-56-3 CAPLUS
 CH 1*H*-Pyrazole, 2-[5-chloro-2-(4-fluorophenyl)phenyl]-5-[5-[3-(
 methylsulfonyl)phenyl]-2-thienyl]-3-(trifluoromethyl)- (CA INDEX NAME)



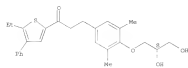
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119 ANSWER 14 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

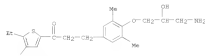
119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

FN 917873-31-5 CAPLUS
CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(5-ethyl-4-phenyl-2-thienyl)- (CA INDEX NAME)

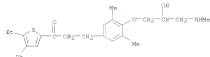
Absolute stereochemistry.



FN 917873-36-0 CAPLUS
CH 3-Propanone, 3-[4-[(3-amino-2-hydroxypropoxy)-5,5-dimethylphenyl]-1-(5-ethyl-4-phenyl-2-thienyl)- (CA INDEX NAME)

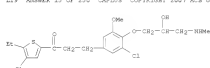


FN 917873-37-1 CAPLUS
CH 1-Propanone, 3-[5-ethyl-4-phenyl-2-thienyl]-3-[4-[(2-hydroxy-3-methylamino)propoxy]-3,5-dimethylphenyl]- (CA INDEX NAME)



FN 917873-39-3 CAPLUS
CH 1-Propanone, 3-[5-ethyl-4-phenyl-2-thienyl]-3-[4-[(2-hydroxy-3-[(2-hydroxyethyl)amino]propoxy)-3,5-dimethylphenyl]- (CA INDEX NAME)

119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

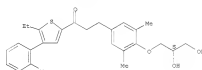


CH 2
CHN 64-18-6
CHF C 82 02

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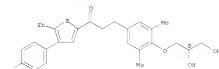
FN 917873-51-3 CAPLUS
CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(5-ethyl-4-[(2-methylphenyl)-2-thienyl]- (CA INDEX NAME)

Absolute stereochemistry.



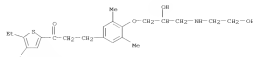
FN 917873-56-4 CAPLUS
CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(5-ethyl-4-[(2-methylphenyl)-2-thienyl]- (CA INDEX NAME)

Absolute stereochemistry.



FN 917873-60-0 CAPLUS

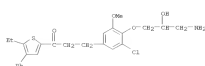
119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



FN 917873-62-8 CAPLUS
CH Formic acid, compd. with 3-[4-[(2-amino-2-hydroxypropoxy)-3-chloro-5-methoxyphenyl]-1-(5-ethyl-4-phenyl-2-thienyl)-1-propanone (1:1) (CA INDEX NAME)

CH 1

CHN 917873-63-7
CHF C25 R20 Cl 1 N 04 S



CH 2

CHN 64-18-6
CHF C 82 02

$\text{O}=\text{C}=\text{O}$

FN 917873-64-0 CAPLUS
CH Formic acid, compd. with 3-[3-chloro-4-[(2-hydroxy-3-(methylamino)propoxy)-5-methoxyphenyl]-1-(5-ethyl-4-phenyl-2-thienyl)-1-propanone (1:1) (CA INDEX NAME)

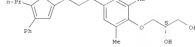
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CHN 917873-63-9
CHF C26 R20 Cl 1 N 04 S

119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

FN 917873-65-5 CAPLUS
CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(4-phenyl-5-propyl-2-thienyl)- (CA INDEX NAME)

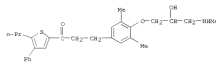
Absolute stereochemistry.



FN 917873-63-3 CAPLUS
CH Formic acid, compd. with 3-[4-[(2-hydroxy-3-(methylamino)propoxy)-3,5-dimethylphenyl]-1-(4-phenyl-5-propyl-2-thienyl)-1-propanone (1:1) (CA INDEX NAME)

CH 1

CHN 917873-62-2
CHF C20 R20 S 03 S



CH 2

CHN 64-18-6
CHF C 82 02

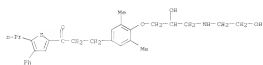
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FN 917873-65-5 CAPLUS
CH Formic acid, compd. with 3-[4-[(2-hydroxy-3-[(2-hydroxyethyl)amino]propoxy)-3,5-dimethylphenyl]-1-(4-phenyl-5-propyl-2-thienyl)-1-propanone (1:1) (CA INDEX NAME)

CH 1

CHN 917873-64-4
CHF C29 R27 N 04 S

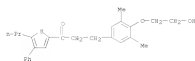
119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



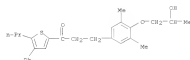
CH 2
 CH 64-18-6
 CH 6 C 82 02

O=C=O

917873-66-6 CAPLUS
 CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(4-phenyl-5-propyl-2-thienyl)- (CA INDEX NAME)

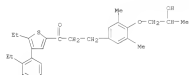


917873-68-8 CAPLUS
 CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(4-phenyl-5-propyl-2-thienyl)- (CA INDEX NAME)

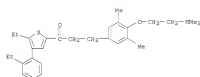


917873-70-2 CAPLUS
 CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(4-phenyl-5-propyl-2-thienyl)- (CA INDEX NAME)

119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

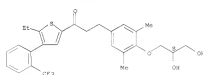


917873-83-3 CAPLUS
 CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(5-ethyl-4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)



917873-89-3 CAPLUS
 CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(5-ethyl-4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)

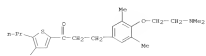
Absolute stereochemistry.



917873-90-6 CAPLUS
 CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(5-ethyl-4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)

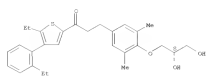
119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

phenyl-5-propyl-2-thienyl)- (CA INDEX NAME)

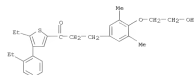


917873-79-1 CAPLUS
 CH 1-Propanone, 3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl]-1-(5-ethyl-4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

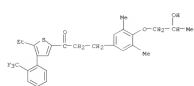


917873-81-5 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(2-ethoxyphenyl)-2-thienyl]-3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)

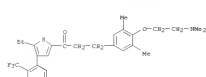


917873-83-7 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(2-ethoxyphenyl)-2-thienyl]-3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)

119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

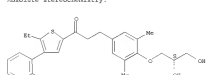


917873-91-7 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(2-ethoxyphenyl)-2-thienyl]-3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)



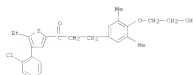
917873-93-9 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(2-ethoxyphenyl)-2-thienyl]-3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

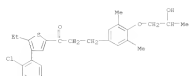


917873-94-0 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(2-ethoxyphenyl)-2-thienyl]-3-[4-[(2S)-2,3-dihydroxypropoxy]-3,5-dimethylphenyl)- (CA INDEX NAME)

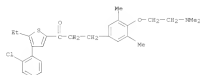
119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



917813-95-1 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-hydroxypropoxy)-7,5-dimethylphenyl]- (CA INDEX NAME)

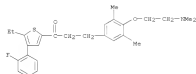


917813-96-2 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-dimethylaminoethoxy)-7,5-dimethylphenyl]- (CA INDEX NAME)



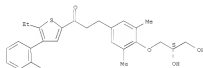
917813-98-4 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-ethyl-4-(2-fluorophenyl)-2-thienyl)- (CA INDEX NAME)

119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

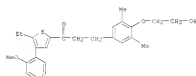


917814-04-5 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-ethyl-4-(2-methoxyphenyl)-2-thienyl)- (CA INDEX NAME)

Absolute stereochemistry.

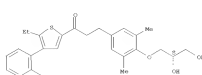


917814-05-6 CAPLUS
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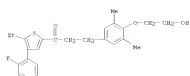


917814-06-7 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-hydroxypropoxy)-7,5-dimethylphenyl]- (CA INDEX NAME)

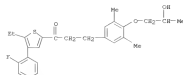
119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



917813-99-5 CAPLUS
CN 1-Propagone, 3-[5-ethyl-4-(2-fluorophenyl)-2-thienyl]-3-[4-(2-hydroxyethoxy)-7,5-dimethylphenyl]- (CA INDEX NAME)

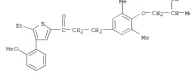


917814-00-1 CAPLUS
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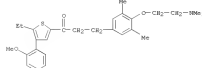


917814-01-2 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-dimethylaminoethoxy)-7,5-dimethylphenyl]-1-[5-ethyl-4-(2-fluorophenyl)-2-thienyl]- (CA INDEX NAME)

119 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

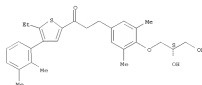


917814-07-8 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-methoxyphenyl)-2-thienyl]- (CA INDEX NAME)



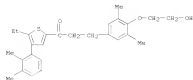
917814-09-0 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2,3-dimethylphenyl)-5-ethyl-2-thienyl]- (CA INDEX NAME)

Absolute stereochemistry.

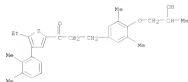


917814-10-3 CAPLUS
CN 1-Propagone, 3-[4-(2-chlorophenyl)-5-ethyl-2-thienyl]-3-[4-(2-hydroxyethoxy)-7,5-dimethylphenyl]- (CA INDEX NAME)

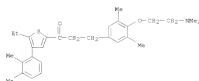
L19 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



917874-11-4 CAPLUS
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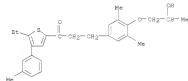
917874-12-5 CAPLUS
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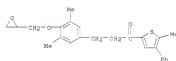
917874-13-6 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(4-methylphenyl)-2-thienyl]-3-[4-(2-hydroxyethoxy)-7,8-dimethylphenyl]- (CA INDEX NAME)

L19 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

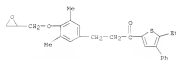
917874-17-0 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(3-methylphenyl)-2-thienyl]-3-[4-(2-hydroxypropoxy)-7,8-dimethylphenyl]- (CA INDEX NAME)



917873-25-79 917873-35-99 917873-61-19
 RI NCT (Neatant); STM (Synthetic preparation); POEP (Preparation); NACT (Neatant or reagent)
 [Preparation of thiophene deriva. as S1P1/EDG1 receptor agonists]
 917873-25-7 CAPLUS
 CH 1-Propanone, 1-[5,5-dimethyl-4-(2-methoxyethoxy)phenyl]-1-(5-methyl-4-phenyl-2-thienyl)- (CA INDEX NAME)

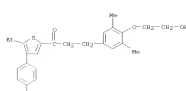


917873-35-9 CAPLUS
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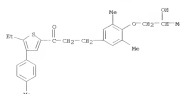


917873-61-1 CAPLUS
 CH 1-Propanone, 1-[5,5-dimethyl-4-(2-methoxyethoxy)phenyl]-1-(4-phenyl-5-propyl-2-thienyl)- (CA INDEX NAME)

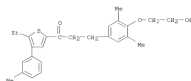
L19 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



917874-14-7 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(4-methylphenyl)-2-thienyl]-3-[4-(2-hydroxypropoxy)-7,8-dimethylphenyl]- (CA INDEX NAME)

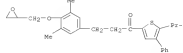


917874-16-9 CAPLUS
 CH 1-Propanone, 1-[5-ethyl-4-(2-methylphenyl)-2-thienyl]-3-[4-(2-hydroxyethoxy)-7,8-dimethylphenyl]- (CA INDEX NAME)



L19 ANSWER 15 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

119 ANSWER 16 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STM

ACCESSION NUMBER:

DOCUMENT NUMBER:

INVENTOR(S):

PATENT ASSIGNMENT(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNTRY:

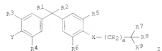
PRIORITY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WI	AE, AG, AU, AM, AT, AR, AS, AU, BA, BE, BG, BR, BY, BY, CA, CH, CN, CO, CU, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, GM, GU, HK, HU, IL, IN, JP, KR, KZ, LB, LU, LV, MA, MD, ME, MG, MK, MN, MU, NA, NL, NO, NZ, OM, PA, PE, PG, PH, PL, PT, PY, RO, RU, SD, SE, SG, SI, SK, SL, SR, SV, TH, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW			
WI	AE, AG, AU, AM, AT, AR, AS, AU, BA, BE, BG, BR, BY, BY, CA, CH, CN, CO, CU, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, GM, GU, HK, HU, IL, IN, JP, KR, KZ, LB, LU, LV, MA, MD, ME, MG, MK, MN, MU, NA, NL, NO, NZ, OM, PA, PE, PG, PH, PL, PT, PY, RO, RU, SD, SE, SG, SI, SK, SL, SR, SV, TH, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW			
JP	2005-169568	A	2005-06-09	
JP	2005-259634	A	2005-08-25	

OTHER SOURCE(S):

GI

MARPAT 146-01671



AS The title benzylbenzene compounds. [1] R1, R2 = each (un)substituted R3-R6

alkyl, Cl-6 haloalkyl, Cl-6 alkenyl, Cl-6 alkynyl, or Cl-6 alkoxy R3-R6

= R, halo, or each (un)substituted Cl-6 alkyl, Cl-6 haloalkyl, Cl-6

alkenyl, Cl-6 alkoxy, or Cl-6 alkoxy R7-R9 = R, each (un)protected NO, NMe, or

CO2R, (un)substituted Cl-10 alkyl, Cl-6 haloalkyl, or one of (R7 and R9),

119 ANSWER 16 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STM

ACCESSION NUMBER:

DOCUMENT NUMBER:

INVENTOR(S):

PATENT ASSIGNMENT(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNTRY:

PRIORITY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006112442	A1	2006-01-14	NO 2005-0731081	2006-04-09
WI	AE, AG, AU, AM, AT, AR, AS, AU, BA, BE, BG, BR, BY, BY, CA, CH, CN, CO, CU, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, GM, GU, HK, HU, IL, IN, JP, KR, KZ, LB, LU, LV, MA, MD, ME, MG, MK, MN, MU, NA, NL, NO, NZ, OM, PA, PE, PG, PH, PL, PT, PY, RO, RU, SD, SE, SG, SI, SK, SL, SR, SV, TH, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW			
JP	2005-169568	A	2005-06-09	
JP	2005-259634	A	2005-08-25	

OTHER SOURCE(S):

GI

MARPAT 146-01671



AS The title benzylbenzene compounds. [1] R1, R2 = each (un)substituted R3-R6

alkyl, Cl-6 haloalkyl, Cl-6 alkenyl, Cl-6 alkynyl, or Cl-6 alkoxy R3-R6

= R, halo, or each (un)substituted Cl-6 alkyl, Cl-6 haloalkyl, Cl-6

alkenyl, Cl-6 alkoxy, or Cl-6 alkoxy R7-R9 = R, each (un)protected NO, NMe, or

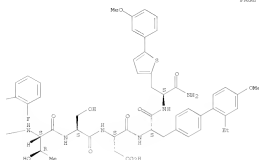
CO2R, (un)substituted Cl-10 alkyl, Cl-6 haloalkyl, or one of (R7 and R9),

119 ANSWER 18 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

119 ANSWER 18 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

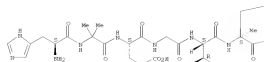
PAGE 1-A

PAGE 1-B

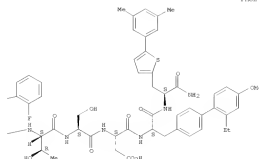


32i 916247-94-4 CAPLUS
 CH L-Alaninamide, L-Histidyl-2-methylalanyl-L-glutamylglycyl-L-
 thionyl-2-(2-oxo-4-methyl-1-phenylalanyl-L-thionyl-L-oxyl-L-
 aspartyl-3-[2'-ethyl-4'-methoxy[1,1'-biphenyl]-6-yl]-L-alanyl-3-[5-
 [7-chloro-1-(2-methoxyphenyl)-2-thienyl]- (CA INDEX NAME)

Absolute stereochemistry.



PAGE 1-B



119 ANSWER 18 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

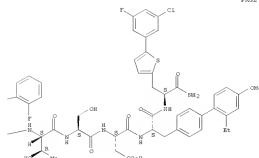
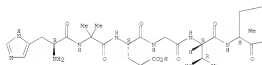
119 ANSWER 18 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

PAGE 1-B

32i 916247-95-5 CAPLUS
 CH L-Alaninamide, L-Histidyl-2-methylalanyl-L-glutamylglycyl-L-
 thionyl-2-(2-oxo-4-methyl-1-phenylalanyl-L-thionyl-L-oxyl-L-
 aspartyl-3-[2'-ethyl-4'-methoxy[1,1'-biphenyl]-6-yl]-L-alanyl-3-[5-
 [7-chloro-1-(2-methoxyphenyl)-2-thienyl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



119 ANSWER 19 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 APPLICATION NUMBER: 20061233006 CAPLUS
 DOCUMENT NUMBER: 146135942
 TITLE: Photochromic and electrochromic compounds and synthesis and use thereof
 INVENTOR(S): Brands, Neil S.; Munsternberg, Bettina; Lemieux, Vincent; Adams, Michael; Gauthier, Simon
 PATENT ASSIGNMENT(S): Simon Fraser University, Can.
 SOURCE: PCT Int. Appl., 67pp.
 CORDEN: F10020
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTRY: F
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006123317	A1	20060928	WO 2006-08652	20060525
US 2006/0135942	NA	20060928	US 2006-08652	20060525
CA 2681136	NA	20060928	CA 2681136	20060525
EP 1919113	A1	20060928	EP 1919113	20060525
JP 2006-254113	A1	20060928	JP 2006-254113	20060525
BR 06/0135942	NA	20060928	BR 06/0135942	20060525
RU 2006/0135942	NA	20060928	RU 2006/0135942	20060525
UA 2006/0135942	NA	20060928	UA 2006/0135942	20060525
BY 2006/0135942	NA	20060928	BY 2006/0135942	20060525
KG 2006/0135942	NA	20060928	KG 2006/0135942	20060525
MD 2006/0135942	NA	20060928	MD 2006/0135942	20060525
PL 2006/0135942	NA	20060928	PL 2006/0135942	20060525
PT 2006/0135942	NA	20060928	PT 2006/0135942	20060525
RO 2006/0135942	NA	20060928	RO 2006/0135942	20060525
SK 2006/0135942	NA	20060928	SK 2006/0135942	20060525
SI 2006/0135942	NA	20060928	SI 2006/0135942	20060525
TR 2006/0135942	NA	20060928	TR 2006/0135942	20060525
UA 2006/0135942	NA	20060928	UA 2006/0135942	20060525
US 2006/0135942	NA	20060928	US 2006-08652	20060525

OTHER SOURCE(S):
 AS Novel photochromic and electrochromic headlamps are described. The compounds are reversibly convertible between ring-open and ring-closed isomeric forms. The conversion between the different isomeric forms may

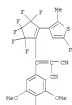
be induced by light or electricity. In one embodiment the compounds may include a charge transfer moiety including electron donor and acceptor groups. The electron donor and acceptor are linearly conjugated in the ring-open form to enable electron transfer but are also isolated in the ring-closed form. Methods for synthesizing the compounds from photochromic and/or electrochromic precursors are also described. For example, the photochromic compounds may be synthesized by reacting diene precursors with dienophiles in a condensation reaction. The compounds may be utilized in reactivity-based photochromic or electrochromic applications. In one embodiment of the invention, compounds of the invention may be used in a method to selectively release a releasable agent, such as a small molecule. According to this method, a photochromic diene precursor compound is reacted

with the releasable agent to form a carrier compound comprising a switching moiety, the switching moiety being reversibly convertible between a thermally unstable form and a thermally stable form. The switching moiety

119 ANSWER 19 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 NO 869207-54-2 CAPLUS
 CD Respondent(s): [3,4,4',5,5'-bis(fluoro-2-(2-methyl-5-phenyl-3-thienyl)-1-cyclopenten-1-yl)[3,4,5-trimethoxyphenyl]methane] (CA INDEX NAME)



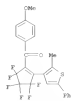
NO 819511-79-2 CAPLUS
 CD Respondent(s): [2-[3,4,4',5,5'-bis(fluoro-2-(2-methyl-5-phenyl-3-thienyl)-1-cyclopenten-1-yl)[3,4,5-trimethoxyphenyl]methane] (CA INDEX NAME)



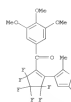
REFERENCE COUNT: 23 THERE ARE 23 CITATIONS AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

FORMAT

119 ANSWER 19 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 NO 869207-54-2 CAPLUS
 CD Respondent(s): [2-[3,4,4',5,5'-bis(fluoro-2-(2-methyl-5-phenyl-3-thienyl)-1-cyclopenten-1-yl)[3,4,5-trimethoxyphenyl]methane] (CA INDEX NAME)



NO 819511-79-2 CAPLUS
 CD Respondent(s): [2-[3,4,4',5,5'-bis(fluoro-2-(2-methyl-5-phenyl-3-thienyl)-1-cyclopenten-1-yl)[3,4,5-trimethoxyphenyl]methane] (CA INDEX NAME)

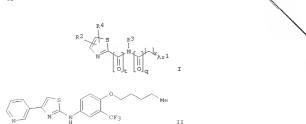


IT 869207-54-2 CAPLUS
 CD Respondent(s): [2-[3,4,4',5,5'-bis(fluoro-2-(2-methyl-5-phenyl-3-thienyl)-1-cyclopenten-1-yl)[3,4,5-trimethoxyphenyl]methane] (CA INDEX NAME)

119 ANSWER 20 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM
 APPLICATION NUMBER: 20061233006 CAPLUS
 DOCUMENT NUMBER: 146135942
 TITLE: Preparation of thiolane compounds for treating hepatitis C virus infections
 INVENTOR(S): Zhang, Shouping; Bhadke, Avinash; Liu, Guizhen; Wang, Xiangyong; Qiu, Xuesi; Chen, Dawei; Gadhachari, Venkatesh; Li, Shouping; Deshpande, Nalini
 PATENT ASSIGNMENT(S): Adhika Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 25pp.
 CORDEN: F10020
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTRY: F
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006123011	A2	20061116	WO 2006-081762	20060509
WO 2006123011	A2	20061116	WO 2006-081762	20060509
US 2006/0135942	NA	20060928	US 2006-08652	20060525
CA 2681136	NA	20060928	CA 2681136	20060525
EP 1919113	A1	20060928	EP 1919113	20060525
JP 2006-254113	A1	20060928	JP 2006-254113	20060525
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UA 2006/0135942	NA	20060928	UA 2006/0135942	20060525
BY 2006/0135942	NA	20060928	BY 2006/0135942	20060525
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MD 2006/0135942	NA	20060928	MD 2006/0135942	20060525
PL 2006/0135942	NA	20060928	PL 2006/0135942	20060525
PT 2006/0135942	NA	20060928	PT 2006/0135942	20060525
RO 2006/0135942	NA	20060928	RO 2006/0135942	20060525
SK 2006/0135942	NA	20060928	SK 2006/0135942	20060525
SI 2006/0135942	NA	20060928	SI 2006/0135942	20060525
TR 2006/0135942	NA	20060928	TR 2006/0135942	20060525
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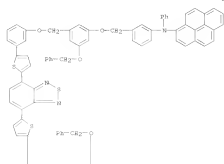
PRIORITY APPL. INFO: NO 869207 145,489,228
 OTHER SOURCE(S):
 US 2006/0135942



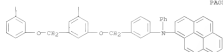
AS The title compound 1 [Ar1 = fluorenyl, Ph, naphthyl, etc.; R2 = halo, cyano,

119 ANSWER 21 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 1-A



PAGE 2-A

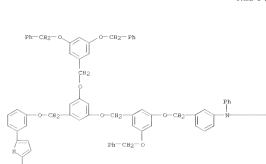


320 903542-24-3 CAPLUS

320 903542-24-3 CAPLUS
 1-Pyrenamine, N,N'-[2,1,3-benzothiadiazole-4,7-diylbis(5,2-thiophenediyl-3,1-phenylene)oxy]methylenes-5-[1,3-bis(phenylmethoxymethyl)ethoxy]-3,1-phenylene]oxy]methylenes-7,1-phenylene]oxy]methylenes-3,1-phenylene]bis(10-phenyl)- (CA INDEX NAME)

119 ANSWER 21 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 1-A

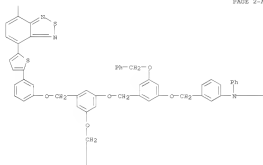


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119 ANSWER 21 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

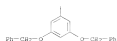
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PAGE 2-B



PAGE 3-A

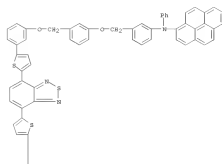


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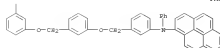
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320 903542-25-2 CAPLUS
 1-Pyrenamine, N,N'-[2,1,3-benzothiadiazole-4,7-diylbis(5,2-thiophenediyl-3,1-phenylene)oxy]methylenes-3,1-phenylene]bis(10-phenyl)- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

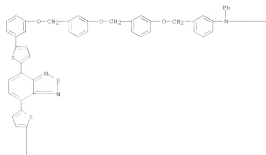


320 903542-26-1 CAPLUS

320 903542-26-1 CAPLUS
 1-Pyrenamine, N,N'-[2,1,3-benzothiadiazole-4,7-diylbis(5,2-thiophenediyl-3,1-phenylene)oxy]methylenes-3,1-phenylene]bis(10-phenyl)- (CA INDEX NAME)

L12 ANSWER 21 OF 250 CAPLES COPYRIGHT 2007 ACS on STN (Continued)

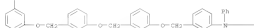
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PAGE 1-24

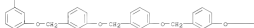


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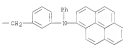


119 ANSWER 21 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A.



PAGE 2-8



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR
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L19 ANSWER 21 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

2008

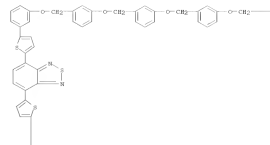


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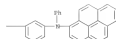
929 903562-07-2 CAPLON
930 1-Pyrenamine, N,N'-[2,1,3-benzothiadiazole-4,7-diylbis(5,2-thiophenediyl-
931 3,1-phenyleneoxygenethyle)-3,1-phenyleneoxygenethyle)-3,1-
932 phenyleneoxygenethyle)-3,1-phenyleneoxygenethyle)-3,1-phenyleneoxygenethyle)]bis[3-
933 phenyl-] (CA INDEX NAME)

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PAGE 1-A



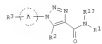
PAGE 1-B



L19 ANMMER 22 OF 250	CAPLUS COPYRIGHT 2007 ACS on PTN
DISCRETION NUMBER:	2006:1096947 CAPLUS
INVENTOR NUMBER:	145:426262
TITLE:	Preparation of triazole-4-carboxamide derivatives as thrombin receptor antagonists
INVENTOR(S):	Kubo, Reiji; Toshiro, Mamoru; Honda, Eiji; Taniguchi, Takahiko; Fukase, Yoshiyuki; Kawamura, Masatoshi; Nakayama, Masaharu
PATENT ASSIGNMENT(S):	Takasata Pharmaceutical Company Limited, Japan
SOURCE:	PC7 Int. Appl., 599pg. CODES: P1XK22 Language: Supersede
DOCUMENT TYPE:	
LANGUAGES:	
FAMILY ACC. NUM. COUNT:	
PATENT INFORMATION:	

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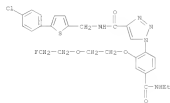
OTHER SOURCE(S): NARPAT 145:438628
 Q1

[illegible]

Searched by Jason M. Nolan, Ph.D.

Page 77

119 ANSWER 23 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 to each other to form an (un)substituted nitrogen-contg. monomer.
 heterocyclic ring, or a salt thereof or a prodrug thereof. The threonine
 receptor antagonist of the invention has a threonine receptor
 (partially)
 PAM-1 antagonist and is useful for preventing or treating PAM-1 assocd.
 pathol. conditions or diseases, e.g. vein or artery thrombus such as
 cerebral infarction, peripheral infarction, and acute heart failure.
 Thus, 1-(4-aminophenyl)-20-cyclopropyl-5-propyl-18-2,3,3-triazole-4-
 carboxamide was condensed with 5,5,5-trifluoropentanoic acid using
 1-ethyl-1-(3-dimethylaminopropyl)carbodiimide hydrochloride, HOBt, and
 Et₃N in MeCN overnight at room temp. to give 434
 N-cyclopropyl-5-propyl-1-
 [4-[(3,3,3-trifluoropentanoamido)amino]phenyl]-18-1,2,3-triazole-4-
 carboxamide (117). 117 inhibited the increase in cellular calcium concn.
 15
 CHO cells expressing human TRH-1 with IC50 of 0.094 μ M. Pharmaceutical
 formulations, e.g. a capsule and tablet formulation contg.
 N-cyclopropyl-1-[4-[(ethylanino)carboxyl]amino]phenyl]-5-propyl-18-1,2,3-
 triazole-4-carboxamide, were prepared.
 20
 912874-33-87, N-[[1-[(4-chlorophenyl)-2-thienyl]methyl]-1-[4-
 (ethylanino)carboxyl]-2-[2-[2-fluoroethoxy]ethoxy]phenyl]-18-1,2,3-
 triazole-4-carboxamide 912875-11-39, N-[[1-[(4-chlorophenyl)-2-
 thienyl]methyl]-3-[2-[2-[2-fluoroethoxy]ethoxy]-4-[[1,2,2,2-
 trifluoroethyl]amino]carboxyl]phenyl]-18-1,2,3-triazole-4-carboxamide
 24a PAC (Pharmacological activity); SPN (Synthetic preparation); T80
 (Toxicologic use); R10G (Biological study); PREP (Preparation); USES
 (Uses);
 Preparation of triazolecarboxamide derivs. as threonine receptor
 antagonists
 for treatment or prevention of vein or artery thrombus)
 28
 912874-29-3 CAPLUS
 CN 18-1,2,3-Triazole-4-carboxamide,
 N-[[1-[(4-chlorophenyl)-2-thienyl]methyl]-
 1-[4-[(ethylanino)carboxyl]-2-[2-[2-fluoroethoxy]ethoxy]phenyl]- (19C1)
 (CA INDEX NAME)

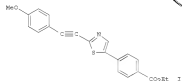


119 ANSWER 23 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 CN 18-1,2,3-Triazole-4-carboxamide,
 N-[[1-[(4-chlorophenyl)-2-thienyl]methyl]-
 1-[2-[2-[2-fluoroethoxy]ethoxy]-4-[[1,2,2,2-trifluoroethyl]amino]carboxyl]p-
 henyl]- (19C1) (CA INDEX NAME)

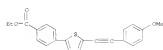
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REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR
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249 ANSWER 23 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 ACQUISITION NUMBER: 2006100544 CAPLUS
 ECONOMIC NUMBER: 14547433
 TITLE: Introduction of ethylene and thiophene spacers
 into 2,5-diarylthiazole and 2,5-diarylthiophene
 AUTHOR(S): Yokoyama, Ryu; Mohamed Ahmed, Mohamed S.; Mori,
 Atsushi
 CORPORATE SOURCE: Chemical Sciences Laboratory, Tokyo Institute of
 Technology, Yokohama, 226-8503, Japan
 SOURCE: Tetrahedron 120061, 62(11), 9548-9553
 PUBLICATION: Elsevier Ltd.
 ECONOMIC TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 14547433
 GI



AS Synthesis of 2,5-diarylthiazole and 2,5-diarylthiophene derivs. bearing
 ethylene and thiophene spacers (e.g. 7) are performed. With methods
 for coupling reactions of terminal alkyne and at the C5 bond of
 heteroatom. compds., five kinds of thiazole and thiophene derivs. are
 prepared
 21
 913621-45-39
 21: SPN (Synthetic preparation); PREP (Preparation)
 bearing
 Preparation of 2,5-diarylthiazole and 2,5-diarylthiophene derivs.
 bearing
 ethylene and thiophene spacers via Pd-catalyzed coupling reactions
 of terminal alkyne and heteroatom. compds.)
 28
 913621-45-3 CAPLUS
 CN Benzoic acid, 4-[[5-[(4-methoxyphenyl)ethynyl]-2-thienyl]-, ethyl ester
 (19C1) (CA INDEX NAME)



REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR
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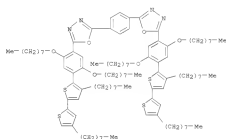
119 ANSWER 23 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
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119 ANSWER 24 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
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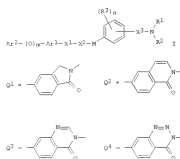
119 ANSWER 25 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM
 SUBMISSION NUMBER: 2004184840 CAPLUS
 DOCUMENT NUMBER: 145123048
 TITLE: Effective tuning of HOMO and LUMO energy levels by
 p-n diblock and triblock oligomer approaches [Retraction of
 document cited in CA144451030]
 AUTHOR(S): Wen, Jun-Hui; Feng, Xia-Chen; Wen, Qiu-An; Wei, Wei;
 Fan, Qe-Li; Wang, Chuan-Ming; Wang, Hong-Yu; Zhu,
 Kai
 CORPORATE SOURCE: Institute of Advanced Materials (IAM), Fudan
 University, Shanghai, 20043, Peop. Rep. China
 SOURCE: Journal of Organic Chemistry [2006], 71(18), 7124
 CORDIS PROJECT: JCRN: 0062-1261
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: The manuscript was withdrawn from publication by the Journal of Organic
 Chemical
 [JOC] Editor-in-Chief: The reason for the withdrawal was a violation of
 the Editorial Guidelines to Publications of Chemical Research of the
 American Chemical Society. Essentially the same material was submitted to and
 published by another journal while the manuscript was under review by
 JOC.
 IT: The corresponding author did not withdraw the JOC manuscript or otherwise
 inform the Editor-in-Chief of the dual submission.
 IT 885481-72-1P
 RI: HSP (Properties); SH (Synthetic preparation); PREP (Preparation)
 (OT20) oligomer; preparation of thiophene and oxadiazole monomers and
 coupling to obtain p-n oligomers with effective tuning of HOMO and
 LUMO energy levels [Retraction]
 RI 885481-72-1 CAPLUS
 CN 1,3,4-Oxadiazole, 2,2'-[4,4'-diethynyl-2,2'-bithiophene]-5,5'-diylbis[2,5-
 bis(ethoxy)-4,1-phenylene]bis[5-phenyl- (PCI) (CA INDEX NAME)

IT 885481-72-2P
 RI: HSP (Properties); SH (Synthetic preparation); PREP (Preparation)
 (T2022) oligomer; preparation of thiophene and oxadiazole monomers and
 coupling to obtain p-n oligomers with effective tuning of HOMO and
 LUMO energy levels [Retraction]
 RI 885481-72-1 CAPLUS
 CN 1,3,4-Oxadiazole, 2,2'-[4,4'-diethynyl-2,2'-bithiophene]-5,5'-diylbis[2,5-
 bis(ethoxy)-4,1-phenylene]bis[5-phenyl- (PCI) (CA INDEX NAME)

119 ANSWER 25 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 REFERENCE COUNT: 21 THREE ARE 21 CITED REFERENCES AVAILABLE FOR
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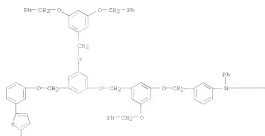
119 ANSWER 26 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM
 SUBMISSION NUMBER: 2004161444 CAPLUS
 DOCUMENT NUMBER: 145124374
 TITLE: Benzene amide derivatives as melanin-concentrating
 hormone receptor antagonists; pharmaceutical
 compositions containing them
 INVENTOR(S): Masuyama, Yukihiro; Hasegawa, Yasuaki
 Hasegawa, Yasuaki
 SOURCE: Jpn. Kokai Tokkyo Koho, 08 pp.
 CORDIS PROJECT: Patent
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2004176443 A 2004-0706 JP 2004-371516 20041222
 PRIORITY APPL. INFO.: JP 2004-371516 20041222
 OTHER SOURCE(S): MARPAT 145124374
 CI



AB: Benzene deriva. 1 [R1] = (un)substituted C3-8 cycloalkenyl, (un)substituted heterocyclylene, (un)substituted benzene, heterocyclylene;
 R2 = (un)substituted C3-8 cycloalkyl, (un)substituted heterocyclylene, (un)substituted benzene, heterocyclylene; R3, R4 = C1-6 alkyl or H2N2 = (un)substituted 5-6-membered benzene, cyclyl optionally containing 1 selected

119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 1-A

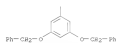


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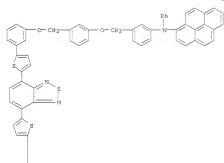
119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 3-A

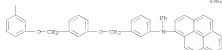


IT 903562-05-19 903562-06-19 903562-07-19
 RI: PEP (Properties); STM (Synthetic preparation); PSEP (Preparation)
 (Linear analog; preparation of polyether dendrimers and linear
 analogs to
 evaluate energy and charge-transfer properties)
 RI 903562-05-19 CAPLUS
 CN 1-Pyrenamine, N,N'-[2,1,3-benzoxadiazole-4,7-diylbis(5,2-thiophenediyl-
 3,1-phenyleneoxy)methylene-3,1-phenylene]bis(N-phenyl)-
 (CA INDEX NAME)

PAGE 1-A

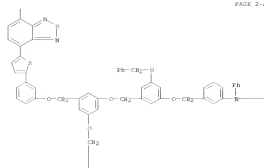


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119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

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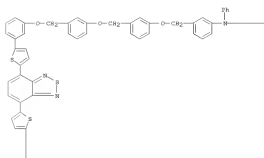
PAGE 2-B



119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

RI 903562-06-1 CAPLUS
 CN 1-Pyrenamine, N,N'-[2,1,3-benzoxadiazole-4,7-diylbis(5,2-thiophenediyl-
 3,1-phenyleneoxy)methylene-3,1-phenylene]bis(N-phenyl)-
 (CA INDEX NAME)

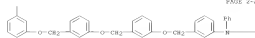
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PAGE 2-B



PAGE 2-A



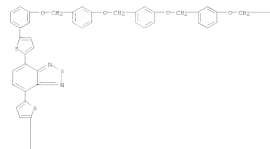
119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-B

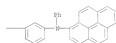


3H 963562-07-2 CAPLUS
CN 1-Pyrazoline, R,H'-[2,1,3-benzoxadiazole-4,7-diylbis(5,2-thiophenediyl-2,1-phenyleneoxy)ethylene-3,1-phenyleneoxy)methylene-3,1-phenylene]]bis[N-phenyl- (CA INDEX NAME)

PAGE 1-A

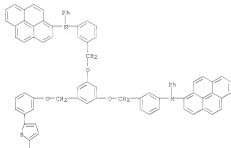


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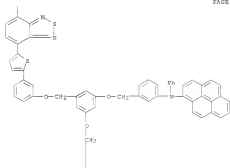


119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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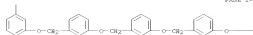


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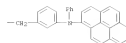


119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 2-B



IT 846531-10-2
E14 250 (Properties)
(Preparation of polyether dendrimers and linear analogs to evaluate energy and charge-transfer properties)

3H 846531-10-2 CAPLUS
CN 1-Pyrazoline, R,H'-[2,1,3-benzoxadiazole-4,7-diylbis(5,2-thiophenediyl-3,1-phenyleneoxy)methylene-5,1,3-benzoxadiazole-5,1,3-phenylene]]tetrakis[N-phenyl- (CA INDEX NAME)

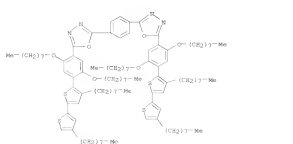
119 ANSWER 27 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 3-A



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FORMAT

L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD

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L19 ANSWER 11 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 INVENTION NUMBER: 2004/207325 CAPLUS
 DOCUMENT NUMBER: 1441451030
 TITLE: Effective Tuning of HOMO and LUMO Energy Levels by p-n

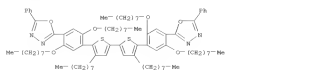
DIKLOCK AND TRIKLOCK OLIGOIMERS APPROACHES
 WANG, JUN-HUAI; FENG, JIA-CHANG; WANG, GUO-LIN; WEI, WEI; FAN, QI-QUAN; MANG, CHANG-MING; MANG, HONG-TAO; SHU, HUI
 YUAN, XIANG-CHENG; HUANG, CHEN-LI; HUANG, WEI
 INSTITUTE OF ADVANCED MATERIALS (IAM), FUDAN
 UNIVERSITY, SHANGHAI, 200437, PEOPLE'S REP. CHINA
 JOURNAL OF ORGANIC CHEMISTRY (2006), 71(7), 2465-2471
 OCLC#: JOCXAB; ISBN: 0022-3463
 AMERICAN CHEMICAL SOCIETY

OTHER SOURCE(S): CASREACT 1441451030

ABSTRACT: A series of oligomers consisting of thiophene as p-type unit and oxadiazole as n-type unit were synthesized. On the basis of the characterization of photophysics and electrochemical properties, the structure-property relationships of the oligomers were studied. Cyclic voltammogram studies showed that changing the number of thiophene unit in oxadiazole units could effectively modulate the electronic properties of the p-n diatomic and triatomic oligomers. The effect of mol. weights on electronic properties is also studied. The observed spectroscopic properties were consistent with their values. These systems demonstrated the band gap control principle in p-n heterostructure oligomers.

IT 885481-72-17
 RI: FRP (Properties); SYN (Synthetic preparation); PREP (Preparation)
 (OTD) oligomers; preparation of thiophene and oxadiazole monomers and coupling to obtain p-n oligomers with effective tuning of HOMO and LUMO energy levels

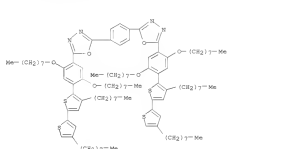
IN 885481-72-17 CAPLUS
 CN 1,3,4-Oxadiazole,
 2,2'-[4,4'-diethynyl[2,2'-bithiophene][5,5'-diyl]bis[2,5-bis(methoxy)-4-phenylene]]bis[5-phenyl]- (PCI) (CA INDEX NAME)



IT 885481-73-2P
 RI: FRP (Properties); SYN (Synthetic preparation); PREP (Preparation)
 (OTD) oligomers; preparation of thiophene and oxadiazole monomers and coupling to obtain p-n oligomers with effective tuning of HOMO and LUMO energy levels

L19 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

coupling to obtain p-n oligomers with effective tuning of HOMO and LUMO energy levels



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD

FORMAT

L19 ANSWER 12 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 INVENTION NUMBER: 2004/101303 CAPLUS
 DOCUMENT NUMBER: 144152279
 TITLE: Piperazine derivatives and their preparation, pharmaceutical compositions, and agonist activity

growth hormone secretagogue (GHS) receptors for the treatment of gastrointestinal disorders

Galina, Alexandra; King, Nigel Paul; Tallie, Andrew
 Kenneth; Wetherington, Jason
 Glaxo Group Limited, UK
 PCT Int. Appl., 1/13 pp.
 COBHI: P16022
 PATENT INFORMATION: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COM. COUNTRY: 1

PATENT NO.	CLASS	DATE	APPLICATION NO.	DATE	
WO 200610629		20060202	WO 2005-098263	20050726	
MI	AT, AU, AL, AM, AR, AS, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI, FR, GB, GR, GU, HK, HU, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LI, LU, LV, LY, MA, MD, MG, MK, MN, MU, MW, MY, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SC, SE, SG, SI, SK, SM, SV, TH, TN, TR, TT, UA, UG, UZ, VC, VE, VN, YU, ZA, ZM, ZW				
MI	AT, BR, BG, CH, CY, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI, FR, GB, GR, HU, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LI, LU, LV, LY, MA, MD, MG, MK, MN, MU, MW, MY, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SC, SE, SG, SI, SK, SM, SV, TH, TN, TR, TT, UA, UG, UZ, VC, VE, VN, YU, ZA, ZM, ZW				
AD	200526448	AL	20060202	AD 2005-26448	20050726
CA	2573559	AL	20060202	CA 2006-2573559	20050726
CA	1776879	AL	20070502	CA 2007-1776879	20050726
FI	AT, BR, BG, CH, CY, CZ, DE, DK, EC, EE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LI, LU, LV, LY, MA, MD, MG, MK, MN, MU, MW, MY, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SC, SE, SG, SI, SK, SM, SV, TH, TN, TR, TT, UA, UG, UZ, VC, VE, VN, YU, ZA, ZM, ZW				
IN	200700370	A	20070803	IN 2007-00370	20070213
NO	200701128	A	20070228	NO 2007-1128	20070228
FIROZITY APPL. INFO.			CA 2004-1614	A	20040719
			WO 2005-14029	A	20050708
			WO 2005-098263	W	20050726

OTHER SOURCE(S): CASREACT 144152279; PUBSACT 144152279

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention provides compds. of formulas I and II or pharmaceutically acceptable salts thereof as defined in the specification. Compds. for formulas I and II wherein Y is a single bond, CH₂, CH=CH, or CH=CH; R1 is

119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 [hetero]aryl, R2 is H, or Cl-balkyl; R3 is H or Me; R4 is Cl-6 alkyl; R5 is H, Cl-balkyl, Cl-acyloxyalkyl, COCl-balkyl, Cl-balkoxy, halo, OH, CF₃, OCF₃, or CN; R6 is H, Cl-balkyl, Cl-acyloxyalkyl, COCl-balkyl, Cl-balkoxy, Cl-balkoxy-Cl-balkyl, halo, OH, CF₃, OCF₃, or CN; or pharmaceutically acceptable salts thereof are claimed in this invention. The compounds are partial or full agonists at the growth hormone secretagogue (GHS) receptors, which may be useful for the treatment of gastrointestinal disorders. Pharmaceutical compns. comprising the compds., methods of prep., the compds., uses of the compds. and methods involving the compds. are also provided. Example compd. III was prepd. by amination of 2-bromo-4-nitrobenzamide with N-(2,6-dimethylpiperazin-1-yl)-2-methoxyphenyl-1-dimethylpiperazine under reductive hydrogenation to give intermediate IV, which was sulfonated with 5-(2-pyridinyl)-2-thiobenzenesulfonyl chloride to give example compd. III. Addn'l. 316

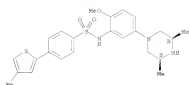
example compds. were prepd. in this invention. All the example compds. were evaluated for their selective agonistic activity at the GHS receptors. All 727 example compds. have an activity of <1 μM in the GHS-R GTPγS functional assay. In the GHS-R agonist BACNAH FLTR assay, all the example compds. have an EC50 value of <1 μM.

IT 874956-35-3P 874956-86-4P 874956-86-4P
 874957-01-4P 874957-05-6P 874957-46-7P
 874957-47-3P 874957-48-0P 874957-50-3P
 874957-64-3P 874957-65-0P 874957-68-4P
 874958-34-3P 874958-37-2P 874958-38-2P
 874959-03-2P 874959-04-7P 874959-05-4P
 874959-07-4P 874959-08-7P 874959-37-0P
 874959-38-3P 874959-39-0P
 N/A POC (Pharmacological activity); STM (Synthetic preparation); TSD (Toxicological study); RSCS (Biological study); PZEP (Preparation); DSES (Dose)

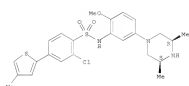
(Drug candidate preparation of piperazines and their agonistic activity of growth hormone secretagogue (GHS) receptors for the treatment of gastrointestinal disorders)

EN 874956-95-3 CAPLUS
 CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.

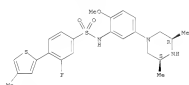


119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



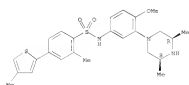
EN 874957-03-6 CAPLUS
 CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-3-chloro-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.



EN 874957-46-7 CAPLUS
 CN Benzenesulfonamide, N-[3-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-4-methoxyphenyl]-2-methyl-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.



EN 874957-41-8 CAPLUS
 CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-4-(5-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

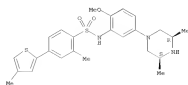
Relative stereochemistry.



119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

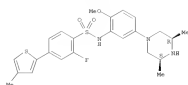
EN 874956-96-4 CAPLUS
 CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-2-methyl-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.



EN 874956-98-6 CAPLUS
 CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-2-methyl-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.



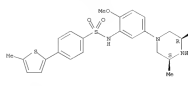
EN 874957-02-4 CAPLUS
 CN Benzenesulfonamide, 2-chloro-N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.



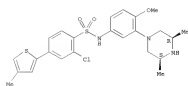
119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

Relative stereochemistry.



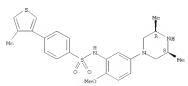
EN 874957-49-0 CAPLUS
 CN Benzenesulfonamide, 2-chloro-N-[3-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-4-methoxyphenyl]-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.



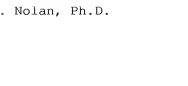
EN 874957-50-3 CAPLUS
 CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-3-methyl-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.

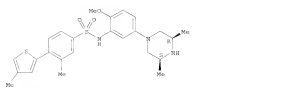


EN 874957-64-9 CAPLUS
 CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-3-methyl-4-(4-methyl-2-thienyl)-, rel- (9C1) (CA INDEX NAME)

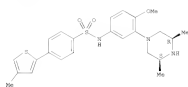
Relative stereochemistry.



119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

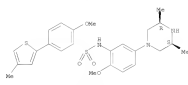


Relative stereochemistry.



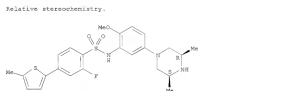
ZN 874951-69-4 CAPLUS
CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-2-methoxy-5-(4-methyl-2-thienyl)-, *rac*- (9CI) (CA INDEX NAME)

Relative stereochemistry.

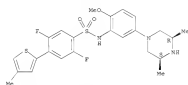


ZN 874951-94-8 CAPLUS
CN Benzenesulfonamide, 2-chloro-N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-, *rac*- (9CI) (CA INDEX NAME)

119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

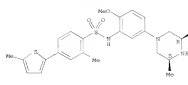


Relative stereochemistry.

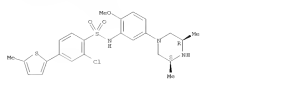


ZN 874959-05-4 CAPLUS
CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-2-fluoro-4-(5-methyl-2-thienyl)-, *rac*- (9CI) (CA INDEX NAME)

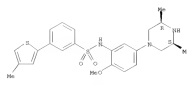
Relative stereochemistry.



119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

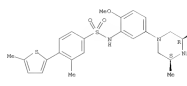


Relative stereochemistry.



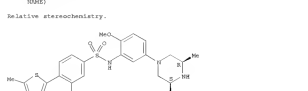
ZN 874958-98-2 CAPLUS
CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-3-methyl-4-(5-methyl-2-thienyl)-, *rac*- (9CI) (CA INDEX NAME)

Relative stereochemistry.



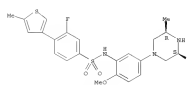
ZN 874959-03-2 CAPLUS

119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



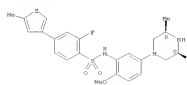
ZN 874959-16-7 CAPLUS
CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-3-fluoro-4-(5-methyl-2-thienyl)-, *rac*- (9CI) (CA INDEX NAME)

Relative stereochemistry.



ZN 874959-17-8 CAPLUS
CN Benzenesulfonamide, N-[5-[(1R,5S)-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-3-fluoro-4-(5-methyl-2-thienyl)-, *rac*- (9CI) (CA INDEX NAME)

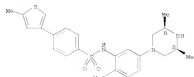
Relative stereochemistry.



119 ANSWER 33 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

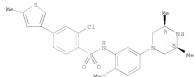
RD 874959-19-0 CAPLUS
 CD Benzenehexafluoride, N-[5-[[[3R,5S]-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-4-(5-methyl-3-thienyl)], tel- (902) (CA INDEX NAME)

Relative stereochemistry.



RD 874959-19-0 CAPLUS
 CD Benzenehexafluoride, 2-chloro-N-[5-[[[3R,5S]-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-4-(5-methyl-3-thienyl)], tel- (902) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

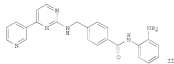
119 ANSWER 34 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 20051346218 CAPLUS
 DOCUMENT NUMBER: 14488323
 TITLE: Preparation of triaziny and other carbonamides as inhibitors of histone deacetylase
 INVENTOR(S): Belousov, Daniel; Mow, Soon Myung; Vaisburg, Arkadii; Moradov, Georij Leif; Silovsky, Rappael, Stephanie; Frechet, Jeremy; Kowalsky, Giliane
 PATENT ASSIGNOR(S): Methypharm, Inc., Can.
 SOURCE: U.S. Pat. Appl. Publ., 324 pp., Cont.-in-part of U.S. Ser. No. 359,856.
 COUNTRY: US
 LANGUAGE: English
 FAMILY NO.: 3
 PATENT INFORMATION: 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005100202	A1	2005-12-29	US 2005-100205	2005-10-25
US 2004126134	A1	2004-06-03	US 2002-141704	2002-09-12
US 2004142613	A1	2004-07-22	US 2003-358556	2003-03-24
US 6837220	BE	2005-05-24		
JP 2005255463	A	2005-09-22	JP 2005-097310	2005-03-18
US 2006220547	A1	2006-12-07	US 2002-112124	2002-11-24
US 2006220547			US 2001-321407	2001-03-14
US 2002-393709	P	2002-04-16		
US 2002-247054	A2	2002-09-12		
US 2003-358556	A2	2003-03-24		
US 2002-327427	A3	2002-09-12		
JP 2003-528544	A3	2003-09-12		

OTHER SOURCE(S): MARPAT 144-08721

01

119 ANSWER 34 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

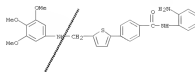


AS The invention provides compounds and methods for inhibiting histone deacetylase enzymic activity. Such compounds include carbonamides I [Cy2 = (unsubstituted cycloalkyl, aryl, heteroaryl, heterocyclyl) each of which is optionally fused to one or two aryl or heteroaryl rings, or to one or two (unsaturated cycloalkyl or heterocycloalkyl rings); R2 = a bond, methyl, ethyl, propyl, etc.; R1 = H, heteroalkylene, heterocycloalkylene; Ar2 = (unsubstituted heteroalkylene) R5, R6 = H, alkyl, aryl, aralkyl; q = 0-1; Ar2 = (unsubstituted 5-6 membered cycloalkyl, heterocycloalkyl or heteroaryl substituted with an amino or hydroxy moiety; with prolines) which were prepared and claimed. E.g., a multi-step synthesis of II, starting from N-(4-aminophenyl)benzoate.HCl, was given. The invention also provides esters, and methods for treating cell proliferative diseases and conditions. Antitumor effects of some I are illustrated for colorectal, pulmonary and pancreatic neoplasms also the combined antineoplastic effect of histone deacetylase inhibitors and histone deacetylase antagonists oligonucleotides on tumor cells in vivo was demonstrated. Although the method of preparation are not claimed, hundreds of example preps. are included.

IT 503042-16-0P
 M: PAC (Pharmaceutical activity); SPH (Synthetic preparation); THU (Therapeutic use); BIO (Biological study); PREP (Preparation); USES (Uses)
 (Drug candidate; preparation of triaziny and other carbonamides as inhibitors of histone deacetylase for treating cell proliferative diseases)

RD 503042-16-0 CAPLUS
 CD Benzamide, N-[5-[[[3R,5S]-3,5-dimethyl-1-piperazinyl]-2-methoxyphenyl]-4-(5-methyl-3-thienyl)]- (902) (CA INDEX NAME)

119 ANSWER 34 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



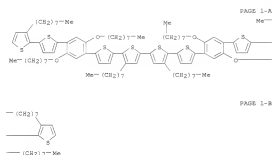
119 ANSWER 37 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

ACCESSION NUMBER: 20051307955 CAPLUS
 DOCUMENT NUMBER: 14462626
 TITLE: Device with small molecular thiophene compound having
 divalent linkage
 INVENTOR(S): Ouy, Hong J.; Lin, Ping; Wu, Yiliang
 PATENT ASSIGNOR(S): Xerox Corporation, USA
 SOURCE: Eur. Pat. Appl., 44 pp.
 CODEN: EPLUJLUM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY CLASS. NUM. CONT.:
 EXTENT INFORMATION:
 REFERENCE COUNT: 22 THREE ARE 22 CITED REFERENCES AVAILABLE FOR
 T215
 RECORD, ALL CITATIONS AVAILABLE IN THE EE
 FORMAT

PATENT NO. PUB. DATE APPLICATION NO. DATE
 EP 1465533 A2 EP 2005-101046 20050409
 RI AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 SI, TR, UK, FI, NO, CY, AU, JP, SG, CA, NZ, HK, TW, KR,
 RU, BR, IN, YU
 US 2005/077160 A1 20051211 US 2004-065436 20040610
 JP 2006097815 A 20060207 JP 2005-163735 20050623
 PRIORITY AFTER. INFO.: US 2004-065436 A US 20040610

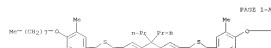
OTHER SOURCE(S): MARPAT 14462626
 AB: An electronic device composed of a semiconductor layer in contact with a
 number of electrodes, wherein the semiconductor layer includes a small
 mol.
 Thiophene compound consisting of: at least one divalent linkage; and
 a plurality of thiophene unit, each thiophene unit being represented by
 structure (B) wherein each thiophene unit is bonded at either or both of
 the 2nd ring position and the 5th ring position, wherein there is at
 least
 one thiophene unit where R1 is present at the 3rd ring position or the
 4th
 ring position, or at both the 3rd ring position and the 4th
 position,
 wherein for any two adjacent thiophene units there is excluded the
 simultaneous presence of the same or different R1 at the 3-position or
 one
 thiophene unit and at the 3'-position of the other thiophene unit, and
 wherein the number of the thiophene unit is at least 4.
 IT 871334-60-6P
 RI: PREP (Preparation, unclassified); PEP (Properties); TEM (Technical or
 engineered material use); PREP (Preparation); UHER (Uses)
 (electronic device with small mol. thiophene semiconductor compound
 having divalent linkage)
 RI 871334-60-6 CAPLUS
 CN 2,2',5',2'',5'',2'''-Quaterthiophene, 5,5'''-bis[2,5-bis(octyloxy)-4-(3'-
 octyl[2,2'-bithiophen)-5-yl]phenyl]-3',4'',4'''-diocetyl- (PCL) (CA INDEX
 NAME)

119 ANSWER 37 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



119 ANSWER 38 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 20051204469 CAPLUS
 DOCUMENT NUMBER: 14518139
 TITLE: Synthesis and mesomorphic behaviour of novel
 light-emitting liquid crystals
 AUTHOR(S): Aldred, Matthew P.; Eastwood, Amanda J.; Kinney,
 Stuart P.; Richards, Gary J.; Visbeck, Ramon Kelly,
 Stephen M.; O'Neill, Mary
 CORPORATE SOURCE: Department of Chemistry, University of Hull, Hull,
 UK
 SOURCE: Liq. Cryst. (2005), 32(10), 1251-1264
 CODEN: LIQCRD; ISSN: 0267-8292
 PUBLISHER: Taylor & Francis Ltd
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: The results of a systematic study of the structure-mesomorphic behavior
 relations of a diverse range of light-emitting liquid crystals, but
 especially
 nematic 2,7-disubstituted-9,9-disilylfluorenes, are reported. The
 dependence of the mesomorphic behavior and transition temps. on the
 nature
 and length of the terminal chains, the nature, position and number of
 lateral
 substituents and the number and nature of aromatic rings with and without
 heteroatoms in the central core was studied. The results of these
 studies
 were used to design polymerizable, light-emitting crystals (reactive
 mesogens) with a nematic phase having a high clearing point and a m.p.
 below room temperature for facile OLED fabrication.
 IT 888036-08-6P 888036-10-0P 888036-11-1P
 RI: PREP (Physical, engineering or chemical process); PEP (Properties);
 PTP
 (Physical process); SYN (Synthetic preparation); PREP (Preparation); PPOC
 (Process)
 (Preparation and liquid crystal properties of)
 RI 888036-08-6 CAPLUS
 CN Thiophene, 2,2'-(9,9-diglyoxy)-9-fluorene-2,7-diyl]bis[5-[3-methyl-4-
 (octyloxy)phenyl]- (PCL) (CA INDEX NAME)



PAGE 1-B

— (CH2)7—Me
 RI 888036-10-0 CAPLUS

119 ANSWER 39 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 (3) Thiophene, 2-(2',3',4,9-tetrakis(9H-fluorene-2,7-diyl)bis[5-13,5-dimethyl-4-
 (octyloxy)phenyl]-9-yl) (PCT) (CA INDEX NAME)

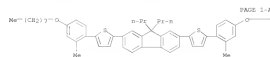


PAGE 1-A

PAGE 1-B

---(CH₂)₁---Me

39 59616-11-2 CAPLUS
 (3) Thiophene, 2-(2',3',4,9-tetrakis(9H-fluorene-2,7-diyl)bis[5-[2-methyl-4-
 (octyloxy)phenyl]-9-yl) (PCT) (CA INDEX NAME)



PAGE 1-A

PAGE 1-B

---(CH₂)₁---Me

REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR
 THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE AS

119 ANSWER 39 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 ACCESSION NUMBER: 2005:1129595
 DOCUMENT NUMBER: 14138713

Preparation of glycosides as antidiabetic agents and
 having inhibitory activity against sodium-dependent
 transporters

INVENTOR(S): Nemura, Shunichiro; Kawashima, Koji; Weta, Kiichiro
 TANIHARA, Shunichiro Co. Ltd., Japan
 SOURCE: U.S. Pat. App. Publ., 127 pp., Cont.-in-part of
 Appl.

NO. PCT/JP04/011132
 OTHER: US2004
 LANSOURCE: 2001108
 FAMILY ACT. NUM. COUNTRY: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005137980	A1	20051020	US 2005-08446	20050710
US 2005051725	A1	20050210	MO 2004-IP11312	20040710
WO 2004051725	W	20040517	EP 1491312	20040710
CA, CN, CH, CR, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, JP, KR, MA, MX, MY, NZ, PE, PT, RU, SG, SI, SK, TH, TR, TW, UA, US, VE, VN, YU, ZA, ZM, ZW				
BR, BG, BY, BE, BO, BR, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, JP, KR, MA, MX, MY, NZ, PE, PT, RU, SG, SI, SK, TH, TR, TW, UA, US, VE, VN, YU, ZA, ZM, ZW				
WO 2004050057	A1	20040503	MO 2004-IP10192	20040111
W: AU, AG, AL, AN, AT, AU, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, JP, KR, MA, MX, MY, NZ, PE, PT, RU, SG, SI, SK, TH, TR, TW, UA, US, VE, VN, YU, ZA, ZM, ZW				
CA, CN, CH, CR, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, JP, KR, MA, MX, MY, NZ, PE, PT, RU, SG, SI, SK, TH, TR, TW, UA, US, VE, VN, YU, ZA, ZM, ZW				
US 2004213323	A1	20040928	US 2004-440914	20040502
US 2004229240	A1	20041012	US 2004-457728	20040615
US 2004249414	A1	20041019	US 2004-457727	20040615
US 2004253251	A1	20041228	US 2004-457726	20040615
PRIORITY APPL. INFO.:			US 2003-491549	F 20070901
			MO 2004-IP11312	A1 20040730
			US 2003-491529	F 20070901

119 ANSWER 39 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 US 2003-519155P F 20031112
 US 2003-519209P F 20031112
 US 2003-519210P F 20031112
 US 2003-519811P F 20031112
 US 2004-579722P F 20040615
 US 2004-579730P F 20040615
 US 2004-579758P F 20040615
 US 2004-579782P F 20040615
 US 2004-903034 A1 20040730
 US 2004-903236 A1 20040730
 US 2004-903238 A1 20040730
 JP 2005-23728 A 20050131
 US 2005-45446 A 20050131
 US 2005-7266539 F 20051017

OTHER SOURCE(S): CASREACT 143:38713; MARPAT 143:38713
 GI



AS Glycosides 1, wherein A and B are: (1) A is unsat. monocyclic heterocyclic, and B is unsat. monocyclic heterocyclic, unsat. fused hetero-bicyclic, or benzene, (2) A is benzene, and B is unsat. heterocyclic or unsat. fused hetero-bicyclic, or (3) A is unsat. fused hetero-bicyclic, and B are independently unsat. monocyclic heterocyclic, unsat. fused hetero-bicyclic, or benzene. Y is a carbon atom or a nitrogen atom, Y is -[CH₂]-n (n is 1 or 2) a pharmaceutically acceptable salt thereof, or a prodrug thereof. A method is claimed for treating or delaying the progression or onset of diabetes mellitus, diabetic

119 ANSWER 39 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 retinopathy, diabetic neuropathy, diabetic nephropathy, delayed wound healing, insulin resistance, hyperlipidemia, hyper-insulinemia, elevated blood levels of fatty acids, elevated blood levels of glycerol, hyperlipidemia, obesity, hypertriglyceridemia, syndrome X, diabetic complications, atherosclerosis, or hypertension. The pharmaceutical compo. may be orally administered to mammalian species including human beings, apes, dogs, etc., for example, in the dosage form of tablet, capsule, granule or powder, or administered in the form of injection, suppository, or intra-nasally, or in the form of transdermal patch. Thus, 1-[β-D-glucopyranosyl]-4-chloro-3-(4-ethyl-benzyloxy)thiophen-2-yl-methylbenzene was prep. as antidiabetic agent and having inhibitory activity against sodium-dependent transporter.

IT 842135-S1-79
 RU: RCT (Reactant); SM: Synthetic preparation; PREP (Preparation); RACT (Reactant or reagent)
 Inhibitory activity against glycosides as antidiabetic agents and having activity against sodium-dependent transporter

RU 842135-S1-79 CAPLUS
 (3) Thiophene, 2-[(5-oxo-2-methylphenyl)methyl]-5-phenyl- (PCT) (CA INDEX NAME)

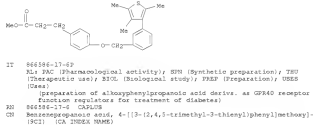


119 ANSWER 42 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:103743 CAPLUS
 DOCUMENT NUMBER: 143187051
 TITLE: Preparation of alkoxyphenylpropanoic acid derivatives as GPR40 receptor function regulators
 INVENTOR(S): Yasuno, Tetsuya; Kitamura, Shuji; Sakai, Norihiro
 PATENT ASSIGNEE(S): Takeda Pharmaceutical Company Limited, Japan
 SOURCE: JP Int. Appl., 149 pp.
 COORD: P10002
 PATENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY AC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004041338	A1	2004-02-11	JP 2003-108322	2004-03-18
M4	Ad, Ag, Ah, Am, At, Au, Av, Bb, Bc, Bd, Bf, Bg, Bh, Bi, Bj, Bk, Bl, Bm, Bn, Bp, Bq, Br, Bs, Bt, Bu, Bv, Bw, Bx, By, Bz, Ca, Cb, Cc, Cd, Ce, Cf, Cg, Ch, Ci, Cj, Ck, Cl, Cm, Cn, Co, Cp, Cq, Cr, Cs, Ct, Cu, Cv, Cw, Cx, Cy, Cz, Dd, De, Df, Dg, Dh, Di, Dj, Dk, Dl, Dm, Dn, Do, Dp, Dq, Dr, Ds, Dt, Du, Dv, Dw, Dx, Dy, Dz, Ea, Eb, Ec, Ed, Ee, Ef, Eg, Eh, Ei, Ej, Ek, El, Em, En, Eo, Ep, Eq, Er, Es, Et, Eu, Ev, Ew, Ex, Ey, Ez, Fa, Fb, Fc, Fd, Fe, Ff, Fg, Fh, Fi, Fj, Fk, Fl, Fm, Fn, Fo, Fp, Fq, Fr, Fs, Ft, Fu, Fv, Fw, Fx, Fy, Fz, Ga, Gb, Gc, Gd, Ge, Gf, Gg, Gh, Gi, Gj, Gk, Gl, Gm, Gn, Go, Gp, Gq, Gr, Gs, Gt, Gu, Gv, Gw, Gx, Gy, Gz, Ha, Hb, Hc, Hd, He, Hf, Hg, Hh, Hi, Hj, Hk, Hl, Hm, Hn, Ho, Hp, Hq, Hr, Hs, Ht, Hu, Hv, Hw, Hx, Hy, Hz, Ia, Ib, Ic, Id, Ie, If, Ig, Ih, Ii, Ij, Ik, Il, Im, In, Io, Ip, Iq, Ir, Is, It, Iu, Iv, Iw, Ix, Iy, Iz, Ja, Jb, Jc, Jd, Je, Jf, Jg, Jh, Ji, Jj, Jk, Jl, Jm, Jn, Jo, Jp, Jq, Jr, Js, Jt, Ju, Jv, Jw, Jx, Jy, Jz, Ka, Kb, Kc, Kd, Ke, Kf, Kg, Kh, Ki, Kj, Kk, Kl, Km, Kn, Ko, Kp, Kq, Kr, Ks, Kt, Ku, Kv, Kw, Kx, Ky, Kz, La, Lb, Lc, Ld, Le, Lf, Lg, Lh, Li, Lj, Lk, Ll, Lm, Ln, Lo, Lp, Lq, Lr, Ls, Lt, Lu, Lv, Lw, Lx, Ly, Lz, Ma, Mb, Mc, Md, Me, Mf, Mg, Mh, Mi, Mj, Mk, Ml, Mn, Mo, Mp, Mq, Mr, Ms, Mt, Mu, Mv, Mw, Mx, My, Mz, Na, Nb, Nc, Nd, Ne, Nf, Ng, Nh, Ni, Nj, Nk, Nl, Nm, No, Np, Nq, Nr, Ns, Nt, Nu, Nv, Nw, Nx, Ny, Nz, Oa, Ob, Oc, Od, Oe, Of, Og, Oh, Oi, Oj, Ok, Ol, Om, On, Oo, Op, Oq, Or, Os, Ot, Ou, Ov, Ow, Ox, Oy, Oz, Pa, Pb, Pc, Pd, Pe, Pf, Pg, Ph, Pi, Pj, Pk, Pl, Pm, Pn, Po, Pp, Pq, Pr, Ps, Pt, Pu, Pv, Pw, Px, Py, Pz, Qa, Qb, Qc, Qd, Qe, Qf, Qg, Qh, Qi, Qj, Qk, Ql, Qm, Qn, Qo, Qp, Qq, Qr, Qs, Qt, Qu, Qv, Qw, Qx, Qy, Qz, Ra, Rb, Rc, Rd, Re, Rf, Rg, Rh, Ri, Rj, Rk, Rl, Rm, Rn, Ro, Rp, Rq, Rr, Rs, Rt, Ru, Rv, Rw, Rx, Ry, Rz, Sa, Sb, Sc, Sd, Se, Sf, Sg, Sh, Si, Sj, Sk, Sl, Sm, Sn, So, Sp, Sq, Sr, Ss, St, Su, Sv, Sw, Sx, Sy, Sz, Ta, Tb, Tc, Td, Te, Tf, Tg, Th, Ti, Tj, Tk, Tl, Tm, Tn, To, Tp, Tq, Tr, Ts, Tu, Tv, Tw, Tx, Ty, Tz, Ua, Ub, Uc, Ud, Ue, Uf, Ug, Uh, Ui, Uj, Uk, Ul, Um, Un, Uo, Up, Uq, Ur, Us, Ut, Uv, Uw, Ux, Uy, Uz, Va, Vb, Vc, Vd, Ve, Vf, Vg, Vh, Vi, Vj, Vk, Vl, Vm, Vn, Vo, Vp, Vq, Vr, Vs, Vt, Vu, Vw, Vx, Vy, Vz, Wa, Wb, Wc, Wd, We, Wf, Wg, Wh, Wi, Wj, Wk, Wl, Wm, Wn, Wo, Wp, Wq, Wr, Ws, Wt, Wu, Wv, Ww, Wx, Wy, Wz, Xa, Xb, Xc, Xd, Xe, Xf, Xg, Xh, Xi, Xj, Xk, Xl, Xm, Xn, Xo, Xp, Xq, Xr, Xs, Xt, Xu, Xv, Xw, Xx, Xy, Xz, Ya, Yb, Yc, Yd, Ye, Yf, Yg, Yh, Yi, Yj, Yk, Yl, Ym, Yn, Yo, Yp, Yq, Yr, Ys, Yt, Yu, Yv, Yw, Yx, Yy, Yz, Za, Zb, Zc, Zd, Ze, Zf, Zg, Zh, Zi, Zj, Zk, Zl, Zm, Zn, Zo, Zp, Zq, Zr, Zs, Zt, Zu, Zv, Zw, Zx, Zy, Zz			

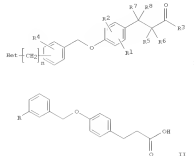
OTHER SOURCE(S):
 GI

119 ANSWER 42 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RI

119 ANSWER 42 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



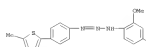
AB Title compd. 1 [Met = (un)substituted heterocycle n = 0, 1, 2], R² = H, alkyl, halo; R³ = (un)substituted heterocycle, (un)substituted alkyl; R⁴ = H, (un)substituted heterocycle, (un)substituted alkyl, etc.; R⁵, R⁶ = H, alkyl, halo; R⁷, R⁸ = H, alkyl, halo, etc.] were prepared for example, 1,1'-[bis(alkoxy)di]lipidide mediated alkylation of 1,4-hydroxyphenylpropanoic acid Me ester with [1-(1,3,5-trimethyl-2-pyrazol-4-yl)phenyl]methanol, n.e.g., prepared from 4-bromo-1,3,5-trimethyl-1H-pyrazole in 2 steps, followed by hydrolysis using NaOH afforded compound 11

11 [R = 1,3,5-trimethyl-1H-pyrazol-4-yl]. Compound 11 [R = 2,4,5-trimethyl-7-thienyl] has function regulating effect on GPR40 (G protein-coupled receptor 40) receptor with the IC₅₀ value of <10 nM. Compd. 1 is claimed useful for the treatment of diabetes. Formulations are given.

17 864586-16-52
 RI PAC (Pharmacological activity); RCT (Reactant); SM (Synthetic preparation); TSD (Therapeutic use); BIC (Biological study); PREP (Preparation); RACT (Reactant or reagent); USBD (Uses)
 [Preparation of alkoxyphenylpropanoic acid derivs. as GPR40 receptor function regulators for treatment of diabetes]
 RI 864586-16-5 CAPLUS
 CH Benzenepropanoic acid, 4-[(2-[2,4,5-trimethyl-3-thienylphenyl]methoxy)-(1H)] [CA INDEX NAME]

119 ANSWER 41 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:143518 CAPLUS
 DOCUMENT NUMBER: 143143518
 TITLE: 2-Methoxy-4-nitrobenzenediazonium salt as a practical diazonium-transfer agent for primary arylamines via tautomerism of 1,3-diaryltriazenes: Desamminative iodination and arylation of arylamines without direct diazotization
 AUTHOR(S): Sakai, Tomoyuki; Son, Eun-Chul; Tamao, Koji
 CORPORATE SOURCE: International Research Center for Elements Science, Institute for Chemical Research, Kyoto University, Uji, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (2005), 78(1), 143-148
 PUBLISHER: CODEN BCSHJH; ISSN 0009-2747
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER NUMBER: CASREACT 143143518
 RI 1,3-Diaryltriazenes, prepared from 2-methoxy-4-nitrobenzenediazonium salt and primary arylamines, exist as aro-transfer tautomers in which the 2-methoxy-4-nitrophenyl group is present on the saturated nitrogen atom and forms a hydrogen bond between the 2-methoxy group and the N-H moiety. The synthetic utility of the diazonium salt as a practical diazonium-transfer agent for primary arylamines via tautomerism of the 1,3-diaryltriazenes has been demonstrated by the desamminative iodination and arylation of the arylamines without direct diazotization. The starting 2-methoxy-4-nitrophenylamine can be easily recovered after the reactions.
 17 862732-61-10
 RI RCT (Reactant); SM (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 [2-methoxy-4-nitrobenzenediazonium salt as a practical diazonium-transfer agent for primary arylamines via desamminative iodination and arylation]
 RI 862732-61-2 CAPLUS
 CH 1-Triazene, 1-[2-methoxy-6-nitrophenyl]-3-[4-(18-methyl-2-thienylphenyl)]-(1H) [CA INDEX NAME]

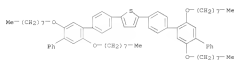


REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RI

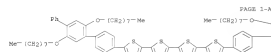
L19 ANSWER 42 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 ACCESSION NUMBER: 20051039445 CAPLUS
 DOCUMENT NUMBER: 1441175
 TITLE: Monodisperse Aromatic Oligomers of Defined Structure and Large Size through Selective and Sequential Suzuki
 AUTHOR(S): Palladium-Catalyzed Cross-Coupling Reactions
 Lichtenhan, Stephen H;D, Michael
 CORRESPONDING SOURCE: Department of Chemistry, University of Hull, Hull,
 H66 7RX, UK
 SOURCE: Chemistry of Materials (2005), 17(22), 5538-5549
 PUBLISHER: WILEY
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Several monodisperse aromatic oligomers of defined structure have been prepared through selective and sequential palladium-catalyzed cross-coupling reactions. The scope of the synthesis was evaluated in terms of (i) mol. size with materials ranging from relatively small sizes (5 and 6 aromatic rings) through to intermediate sizes (9 and 10 aromatic rings), right up to a monodisperse oligomer with 21 aromatic rings, and (ii) variety of mol. structure, with materials including benzene and thiophene core units, and peripheral substituents, including octyloxy, fluoro, and cyano to aid solubility and enhance polarity. The synthetic strategy involved the preparation of organoacid reagents and organolithium derivatives, which were then involved in selective Suzuki palladium-catalyzed cross-couplings to generate intermediate bromides. These intermediates were either converted into boronic acids and then used in further couplings or used directly in further couplings. The scope and limitations of the synthetic method are reported in terms of the size and variety of structures.

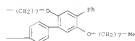
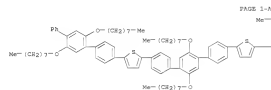
2T 863885-08-19 863885-09-09 863885-10-09 863885-11-09 863885-12-09 863885-13-09 863885-14-09
 RE: Synthesis of monodisperse aromatic oligomers of defined structure
 [preparation of monodisperse aromatic oligomers of defined structure]
 2R 863885-08-05 CAPLUS
 CN Thiophene, 2,5-bis[2',5'-bis(octyloxy)[1,3',4',1''-terphenyl]-4-yl]- (9CI) (CA INDEX NAME)



L19 ANSWER 42 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



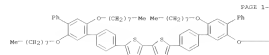
2R 863885-13-02 CAPLUS
 CN Thiophene, 2,2',12',12'',5'-bis(octyloxy)[1,2',4',1''-terphenyl]-4,4''-diylbis[5-12',5'-bis(octyloxy)[1,2',4',1''-terphenyl]-6-yl]- (9CI) (CA INDEX NAME)



2R 863885-14-03 CAPLUS
 CN [1,2',5',2''-Terthiophene]-5-carbonitrile, 5',5''-bis[1,2',5'-bis(octyloxy)[1,3',4',1''-terphenyl]-4,4''-diylbis[5-12',5'-bis(octyloxy)[1,2',4',1''-terphenyl]-6-yl]- (9CI) (CA INDEX NAME)

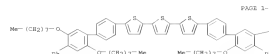
L19 ANSWER 42 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

2R 863885-08-06 CAPLUS
 CN 2,2'-Bithiophene, 5,5'-bis[2',5'-bis(octyloxy)[1,3',4',1''-terphenyl]-4-yl]- (9CI) (CA INDEX NAME)



2R 863885-10-09 CAPLUS

2R 863885-10-09 CAPLUS
 CN 2,2',5',2''-Terthiophene, 5,5''-bis[2',5'-bis(octyloxy)[1,3',4',1''-terphenyl]-4-yl]- (9CI) (CA INDEX NAME)



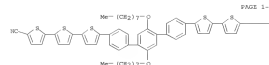
2R 863885-11-09 CAPLUS

2R 863885-11-09 CAPLUS
 CN 2,2',5',2''-Terthiophene, 5,5''-bis[2',5'-bis(octyloxy)[1,3',4',1''-terphenyl]-4-yl]- (9CI) (CA INDEX NAME)

2R 863885-11-09 CAPLUS

2R 863885-11-09 CAPLUS
 CN 2,2',5',2''-Terthiophene, 5,5''-bis[2',5'-bis(octyloxy)[1,3',4',1''-terphenyl]-4-yl]- (9CI) (CA INDEX NAME)

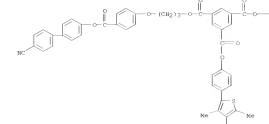
L19 ANSWER 42 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



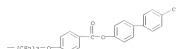
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

119 ANSWER 43 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 20051028945 CAPLUS
 DOCUMENT NUMBER: 143134075
 TITLE: Photonic applications of glassy liquid crystals
 AUTHOR(S): Chen, Huang-Ming F.; Koma, K. G. Pan; Lin, Chi-Meng
 Kuo, Chun-Fu; Chen, Shaw H.
 CORPORATE SOURCE: Department of Photonics and Display Institute,
 National Chiao Tung Univ., Taichung, Hong Kong, China
 SOURCE: Proceedings of SPIE-The International Society for
 Optical Engineering (2005), SPIE Addressments in
 Polymer Optics Design, Fabrication, and Materials),
 5872D, 1-58724/8
 COUNTRY: US; ISSN: 0277-786X
 SPIE-The International Society for Optical
 ENGINEERING: Engineering
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: Glassy liquid crystals (GLCs) possessing multi-functionalities, excellent
 thermal stability, and elevated phase transition temperature have been
 designed and synthesized for photonic device applications. Recent development has
 been reported on deterministic synthesis approach for scalable process in
 preparing GLC materials. The advanced processing eases the material
 preparation and tailors the material properties accordingly to suit device
 applications. These applications can be found in: (1) chiral nematic
 GLCs for circular polarizers and notch filters, (2) photochromic nematic
 GLC, which can be photoinduced reflective in the solid state, for
 potential applications in nondestructive reversible optical data storage and
 photonic switching, and (3) ferroelectric GLCs for potential fast
 switching light valves.
 IT 51106-46-3
 RI: TDB (Technical or engineered material use); USES (Uses)
 (photonic applications of glassy liquid crystals)
 RH 51106-46-3 CAPLUS
 CH 1,3,5-benzenetricarboxylic acid, (7,3,4,4,5,5-hexafluoro-3-cyclopentene-
 1,2-diyl)bis[1,3,5-disubstituted-2-thiophenyl]-4,2-phenylene]
 tetraakis[2-[4-[[[4'-cyano[1,1'-biphenyl]-4-yl]oxy]carbonyl]phenoxy]propyl
 ester (HCl) (CA 20051028945)

119 ANSWER 43 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 PAGE 1-A



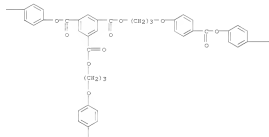
PAGE 1-B



PAGE 2-A



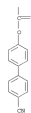
119 ANSWER 43 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 PAGE 2-B



PAGE 2-C

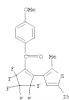


119 ANSWER 43 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 PAGE 2-B



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

119 ANSWER 44 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 20051027400 CAPLUS
 DOCUMENT NUMBER: 147449439
 TITLE:
 A photoswitchable donor- π -linker-acceptor system
 based on a modified heptatriene backbone
 AUTHOR(S):
 COMPANY SOURCE:
 SOURCE:
 171177,
 2134-2138
 CORDR: ADVANCE, ISBN: 0371-4648
 PUBLISHER:
 DOCUMENT TYPE:
 LANGUAGE:
 AB Photoreversible heptatrienes, in which a donor- π -linker-acceptor motif
 can be reversibly cleaved and broken (see Figure), are synthesized using
 a versatile approach. Photochemical ring opening forces a reversible change
 in hybridization of one of the carbons connecting the donor to the
 acceptor group, resulting in the breaking of the linear π -conjugation.
 One particular derivative has interesting electronic properties of
 potential
 use in optoelectronics.
 IT 863207-54-39 863207-55-39
 RI: F55 (Fingerprint); BCT (Reactant); SYN (Synthetic preparation); PREP
 (Preparation); EACT (Reactant or reagent)
 (photoirreversible donor- π -linker-acceptor system based on a modified
 heptatriene backbone)
 NH 863207-54-5 CAPLUS
 CH Methanone, [3,3',4,4',5,5'-hexafluoro-2-(2-methyl-5-phenyl-3-
 thiophenyl-1-yl)-1-(4-methoxyphenyl)-] (CA INDEX NAME)



863207-58-3 CAPLUS
 CH Propanedinitrile, 2-[(3,3',4,4',5,5'-hexafluoro-2-(2-methyl-5-phenyl-3-
 thiophenyl-1-yl)penten-1-yl)-(4-methoxyphenyl)methylene]- (CA INDEX NAME)

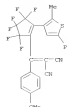
119 ANSWER 45 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 20051021424 CAPLUS
 DOCUMENT NUMBER: 145168392
 TITLE:
 Preparation of biaryl amines as M3 muscarinic
 acetylcholine receptor antagonists
 AUTHOR(S):
 COMPANY SOURCE:
 SOURCE:
 10191,
 CORDR: PREP
 PUBLISHER:
 DOCUMENT TYPE:
 LANGUAGE:
 FAMILY ACC. INFO. IDENT: 1
 PATENT INFORMATION:

PATENT NO.	INTD	DATE	APPLICATION NO.	DATE
NO 2005087026	20050922	NO 2005-088302	20050311	
W, AG, AL, AN, AT, AU, BE, BR, BG, BT, BY, CA, CH, CN, CO, CU, CY, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LA, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, MV, MY, NZ, OM, OS, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SM, SR, ST, SV, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
BM, BR, GB, GR, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LA, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, MV, MY, NZ, OM, OS, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SM, SR, ST, SV, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
EP 1728236	AL	20051129	EP 2004-734149	20050311
FI, AT, BE, BG, BR, CA, CH, CN, CO, CU, CY, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LA, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, MV, MY, NZ, OM, OS, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SM, SR, ST, SV, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				

PRIORITY APPL. INFO.:
 WO 2005-088302 W 20050311

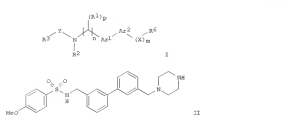
OTHER SOURCE(S):
 MANDAT 143:326392

119 ANSWER 44 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



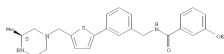
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.
 FORMAT

119 ANSWER 45 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB Title compds. 1 [wherein Ar1, Ar2 = (un)substituted Ph or monocyclic heteraryl] R6 = (un)substituted alkyl; R = C18H37 when n = 0-3; R = CO when n = 4; p = 0-2; n = 0-3; R' = CO, SO2, HNO2 or CO2; R3, R2 = H, (un)substituted alkyl, etc.; R3 = (un)substituted (hetero)aryl, etc., or pharmacologically acceptable salts thereof] were prepared as M3 muscarinic
 acetylcholine receptor antagonists. For instance, solid-phase synthesis of 3-ICP3000H was realized in an overall yield of 64% on 2,4-dinitrophenyl 4-polytetrahydrofuran-3-ylmethanone (HMS resin), via (1) reductive amination with 3-bromo-2-phenylamine hydrochloride, (2) N-sulfonation with 4-methoxybenzenesulfonyl chloride, (3) Pd-catalyzed coupling with 3-iodophenylboronic acid, (4) reductive amination with N-bomparazine and (5) cleavage from the resin with TFA. No *in silico* data were given. 3 and pharmacological compds. are potentially useful for the treatment of muscarinic acetylcholine receptor-mediated diseases, such as respiratory tract disorders.
 IT 865312-57-8
 RI: F55 (Fingerprint); SYN (Synthetic preparation); THU (Therapeutic use); BCOL (Biological study); PREP (Preparation); UDES (Uses)
 (Antagonist; preparation of biaryl amines as M3 muscarinic acetylcholine receptor antagonists)
 NH 865312-57-8 CAPLUS
 CH Methanone, 3-(3-[(3-[(3-[(3-3-methyl-5-phenyl-3-thiophenyl-1-yl)-2-thiophenylphenyl]methyl)-3-ICP3000H])methyl]-2-thiophenylphenyl)methyl)- (ICI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD.

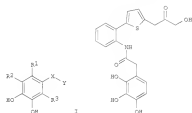
119 ANSWER 43 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L19 ANWER 46 OF 250	CAPUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:	2005:1030451 CAPUS
DOCUMENT NUMBER:	143-30876
TITLE:	Non-glycosylated -glycoiside-peptidic small molecule selectin inhibitors for the treatment of inflammatory diseases
INVENTOR(S):	Kraussch, Henry Aylt, Rold Mike
PATENT ASSIGNEE(S):	Biorxiv Pharmaceuticals A.C., Germany
SOURCE:	Eur. Pat. Appl., 47 pp. CSPAD, EPUSIN
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

[illegible]

OTHER SOURCE(S): MARPAT 143:305710
GI

119 ANSWER 46 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Cont. Exptd)

[illegible]

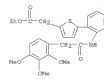
selectin
inhibitors for treatment of inflammatory disorders)

ANALYTICAL FOR TREATMENT OF INFLAMMATORY D

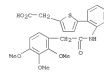
HN 864518-31-0 CAPLUS

CN 2-Thiophenecetic acid,
5-[2-[(2-(2,3,4-trimethoxyphenyl)acetyl)amino]phenyl]-, ethyl ester (CA INDEX NAME)

L12 ANSWER 46 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

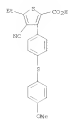


FN 864518-32-1 CAPLUS
CN 2-Thiopheneacetic acid,
5-[2-[[2-[2,3,4-trimethoxyphenyl]acetyl]amino]phenyl]-
yl)- (CA INDEX NAME)

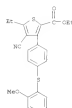


REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L19 ANSWER 47 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

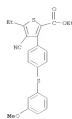


IT 861967-53-18 861967-53-19 861967-60-49
 Eli NCT (Inactivation); STM (Synthetic preparation); PREP (Preparation); KACT (Inactivation or reagent)
 [Preparation of thiophene and furan compounds for potentiating glutamate receptor function]
 EN 861967-53-19 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[[2-methoxyphenyl]thio]phenyl]-, ethyl ester (PCI) (CA INDEX NAME)

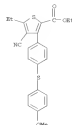


EN 861967-59-1 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[[2-methoxyphenyl]thio]phenyl]-, ethyl ester (PCI) (CA INDEX NAME)

L19 ANSWER 47 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



EN 861967-62-4 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-cyano-5-ethyl-3-[4-[[4-methoxyphenyl]thio]phenyl]-, ethyl ester (PCI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE

FORMAT

L19 ANSWER 48 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

ACCESSION NUMBER: 2005043567 CAPLUS
 DOCUMENT NUMBER: 148463932
 TITLE: Organic species that facilitate charge transfer to or from nanostructures
 INVENTOR(S): Whiteford, Jeffrey A.; Suresta, Mihai A.; Nguyen, Linh Sober, Erik
 PATENT ASSIGNER(S): Nanosys, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 63 pp., Cont.-in-part of U.S. Ser. No. 656,910.
 COUNTRY: 050600
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. NUM. COUNTRY: English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2001039389	A1	20050506	US 2004-928625	20040926
US 2004179390	A1	20040926	US 2003-656910	20030904
US 694326	B2	20050927		
US 200203949	A1	20050928	US 2005-130396	20050516
US 200203950	A1	20050928	US 2005-130393	20050516
US 2001124251	A1	20070331	US 2006-342087	20060126
US 728310	B2	20070505		

PRIORITY APPL. INFO.:

AB The present invention provides polymeric compounds that can be used to modify charge transport across a nanocrystal surface or within a nanocrystal-containing matrix, as well as methods for making and using the same.

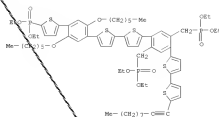
INVENTOR(S):

Eli NCT (Preparation); STM (Synthetic preparation); PREP (Preparation); KACT (Inactivation or reagent)

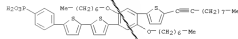
[Preparation of thiophene and furan compounds for potentiating glutamate receptor function]

EN 861967-72-0 CAPLUS
 CN Phosphonic acid, [[2-[5'-[[3-decyloxy]2,2'-bithiophen]-5-yl]-5-[5'-[4-[5-(diethoxyphosphoryl)-2-thienyl]-2,5-bis(hexyloxyphenyl)-2-thienyl]-2,2'-bithiophen]-5-yl]-1,4-phenylene]bis(methylamino)]bis-, tetraethyl ester (PCI) (CA INDEX NAME)

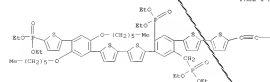
L19 ANSWER 48 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



EN 852056-73-4 CAPLUS
 CN Phosphonic acid, [[4-[5'-[4-[3-[3-decyloxy]-2-thienyl]-2,5-bis(hexyloxyphenyl)-2,2'-bithiophen]-5-yl]phenyl]-2,5-bis(hexyloxyphenyl)-2,2'-bithiophen]-5-yl]-1,4-phenylene]bis(methylamino)]bis-, tetraethyl ester (PCI) (CA INDEX NAME)



EN 852056-74-7 CAPLUS
 CN Phosphonic acid, [[2-[5'-[3-decyloxy]2,2'-bithiophen]-5-yl]-4-[diethoxyphosphoryl]-5-[5'-[4-[3-[3-decyloxy]-2-thienyl]-2,5-bis(hexyloxyphenyl)-2,2'-bithiophen]-5-yl]phenyl]methyl]-, diethyl ester (PCI) (CA INDEX NAME)



PAGE 3-A

L19 ANSWER 48 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

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— (CH₂)₁—Me

L19 ANSWER 49 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 2005/325358 CAPLUS
 DOCUMENT NUMBER: 1421392276
 TITLE: Preparation of thiophene-2-carboxamide derivatives as antagonists of CB1 cannabinoid receptors and their therapeutic application
 INVENTOR(S): Barbi, Francesco; Buisson, Catherine; Mestrali, Daniel; Cyprien, Jean-Luc
 PATENT ASSIGNOR(S): Pt. demands, 23 pp.
 SOURCE: CCBH; FRPCL
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTR: 1
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2840792	A1	20050412	FR 2003-11941	20040710
FR 2840792	B1	20060202		
WO 2005035480	A2	20050401	WO 2004-FR2546	20040100
WO 2005035480	A1	20050403		
Wt. At. AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, BF, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LB, LG, LI, LT, LU, LV, MD, MG, MK, MN, MU, MV, MW, MY, NZ, NI, NO, NU, OM, OS, PE, PG, PH, PK, PT, RU, SC, SE, SG, SI, SK, SL, SM, SN, ST, SV, TH, TJ, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
HA, HU, IE, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LB, LG, LI, LT, LU, LV, MD, MG, MK, MN, MU, MV, MW, MY, NZ, NI, NO, NU, OM, OS, PE, PG, PH, PK, PT, RU, SC, SE, SG, SI, SK, SL, SM, SN, ST, SV, TH, TJ, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
EP 1678159	A2	20060712	EP 2004-791480	20041008
FR 2840792	B1	20060202		
JP 2007502979	T	20060405	JP 2004-530437	20041008
US 2006264470	A1	20061123	US 2004-400702	20040407
PRIORITY APPL. INFO.			FR 2003-11941	A 20040710
			MO 2004-FR2546	W 20041008
OTHER SOURCE(S):		MARKET 1421392276		
CI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

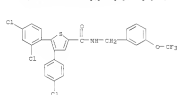
* Title compo. I [wherein R1 = H, alkyl; R2 = alkyl, (un)substituted nonarom. carbocyclyl, 1,2,3,4-tetrahydrophthalen-1-yl or 2-yl, monosubstituted heterocyclyl substituted at R, etc.] or R3R5 = (un)substituted piperazin-1-yl, 1,4-diazepin-1-yl, pyrazolidin-1-yl; R3-R5 = independently H, halo, alkyl, alkoxy, CF₃; R6(R)-alkyl; n = 0-2; thiaz

L19 ANSWER 49 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 free bases or acid addn. salts, and their hydrates or solvates) were prep'd. as antagonists of CB1 cannabinoid receptors and for treatment of the diseases it implies. For instance, II (n.p. = 234) was prep'd by treating 2-(4-chlorophenyl)-1-[1,4-dichlorophenyl]ethanone with POCl₃ and 1,2-dichloroethane in DMF at 50° for 16 h, followed by TBA-epoxidation with m-chlorobenzoic acid, and TBA-oxidation with 3-aminopiperidine. I exhibited an excellent affinity in vitro (IC₅₀ 8-10⁻⁶ M) for the CB1 cannabinoid receptors. Thus, I saw useful for treating psychosis, appetite and gastrointestinal disorders, smoking and also cessation, etc.
 849121-85-7

IT R1: PAC (Pharmacological activity); SM (Synthetic preparation); TBA (Tetrahydroxy acid); R2C (Biological study); PREP (Preparation); USPO (Case)

CB1 cannabinoid preparation of thiophene-2-carboxamide deriv. as antagonists of CB1 cannabinoid receptors

RU 2-Thiophene-2-carboxamide, 4-(4-chlorophenyl)-5-(2,4-dichlorophenyl)-4-[1,3-trifluoromethylphenyl]methyl- (9C1) (CA INHER NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

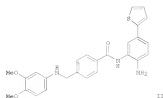
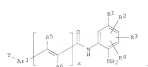
FORMAT

L19 ANSWER 50 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 2005/325359 CAPLUS
 DOCUMENT NUMBER: 1421355094
 TITLE: Preparation of amide derivatives as inhibitors of histone deacetylase
 INVENTOR(S): Moradali, Omer; Peguin, Isabelle; Leclerc, Sylvain
 PATENT ASSIGNOR(S): Frecheville, Sylvain; Vachon, Armand; Bastien, Jeffrey M.; Tessier, Pierre; Malais, Tanny C.
 SOURCE: PCT Int. Appl. 559 pp.
 DOCUMENT TYPE: CCBH; FI302
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTR: 2
 PATENT INFORMATION: 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005030705	A1	20050407	WO 2004-0831591	20040924
WO 2005030705	A2	20050410		
Wt. At. AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, BF, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LB, LG, LI, LT, LU, LV, MD, MG, MK, MN, MU, MV, MW, MY, NZ, NI, NO, NU, OM, OS, PE, PG, PH, PK, PT, RU, SC, SE, SG, SI, SK, SL, SM, SN, ST, SV, TH, TJ, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
HA, HU, IE, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LB, LG, LI, LT, LU, LV, MD, MG, MK, MN, MU, MV, MW, MY, NZ, NI, NO, NU, OM, OS, PE, PG, PH, PK, PT, RU, SC, SE, SG, SI, SK, SL, SM, SN, ST, SV, TH, TJ, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
AO 2004276337	A1	20050407	AO 2004-276337	20040924
CA 2539317	A1	20050407	CA 2004-253917	20040924
EP 1643952	A1	20050407	EP 2004-791074	20040924
FR 2840792	B1	20060202		
JP 2007506715	T	20060322	JP 2004-0004571	20040924
PRIORITY APPL. INFO.			US 2003-505849	P 20030529
			US 2003-532979	P 20031229
			US 2004-541082P	W 20040409
			WO 2004-0831591	W 20040924
OTHER SOURCE(S):		MARKET 1421355094		
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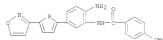
112 ANSWER 30 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



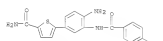
1X Title: eqs. 1 [Ar] = [un]saturated, [un]substituted-mono or fused
 poly-cyclic hydroaroyl [optionally containing 1-4 heteroatoms per ring]
 1Z =
 [un]substituted-mono-, -di-, -tri-,cyclic-aryl or -heteroaryl; R₁, R₂, R₃,
 4 independently = H, halo, amino, etc.; R₃ and R₄ independently = H,
 alkyl, aryl, etc.; n = 0-7; Y = any pharmaceutically acceptable chemical
 consisting of 1 to 50 atoms (13 provisions) and
 pharmaceutically acceptable salts; and prepared & disclosed as
 1initiators
 of histone deacetylase. Thus, e.g., 11 was prepared by Suzuki coupling
 of 3-bromo-2-nitro-phenylaniline (preparation given) with 2-thiophenecarboxic
 acid
 followed by arylation with 4-[3,4-dimethoxy-phenylamino]-
 methylbenzoic acid (preparation given) and subsequent reduction. The
 1initiator
 1activity of 1 towards acetyltransferase activity of histone deacetylase

IT 049233-46-1P
KL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

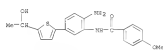
119 ANSWER 50 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



NN 849233=84-7 CAPLUS
 CN 2-Thiophenecarboxanide, 5-[4-amino-3-[(4-methoxybenzoyl)amino]phenyl]-
 (9C2) (CA INDEX NAME)



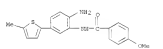
FN 849233-85-8 CASPLUS
 CN Benzanide, N-[2-amino-5-[5-(2-hydroxyethyl)-2-thienyl]phenyl]-4-methoxy-
 [9C] (CA INDEX NAME)



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NN  849234-99-7  CASL08
CN  Benzanide, N-[2-amino-5-(5-methyl-2-thienyl)phenyl]-4-methoxy- (9CI)  (CA
INDEX NAME)

```

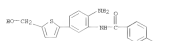


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE

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119 ANSWER 50 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
      preparation); THU (Therapeutic use); BIOL (Biological study); PREP
      (Preparation); RACT (Reactant or reagent); USES (Uses)
      [prep. of amide derivs. as inhibitors of histone deacetylase]
FN 849233-46-1 CAPLUS
CN Benzanide, N-[2-(amino-5-[5-(hydroxymethyl)-2-thienyl]phenyl)-6-meth-
  (9CI) (CA INDEX NAME)

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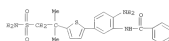
849233-65-4P 849233-80-3P 849233-82-5P
849233-84-7P 849233-85-8P 849234-99-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); TRU
(Therapeutic use); BGL (Biological study); PREP (Preparation); USES
(Uses)
Isomerization of amide oxides as inhibitors of histone demethylase





FN 049233-00-3 CAPLUS

CN Benzanide, N-[2-amino-5-[5-[2-(amisosulfonyl)-3,1-dimethylethyl]-2-thienyl]phenyl]-4-methoxy- (SCI) (CA INDEX NAME)



```

FN  849233-82-5  CAPLOS
CN  Benzanide, N-[2-amino-5-[5-(3-isoxazolyl)-2-thienyl]phenyl]-4-methoxy-
    (SC1)  (CA INDEX NAME)

```

1.19 ANSWER 51 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN

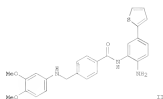
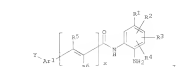
ACCESSION NUMBER: 2005/300394 CAPLOS
DOCUMENT NUMBER: 142/373563
TITLE: Preparation of amide derivatives as inhibitors of
histone deacetylase
INVENTOR(S): Moradei, Osnar; Requin, Isabelle; Leiti, Silviana;
Frechette, Sylvie; Vassaborg, Arkadii; Besteman,
Geoffrey M.; Tessier, Pierre; Mallias, Tanny C.
PATENT ASSIGNOR(S): Methylenex, Inc., Can.
SOURCE: PCT Int. Appl., 289 pp.
COUNTRY FIXED: COENB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

[illegible]

PRIORITY APPLN. INFO.: US 2003-50184P P 20030924
US 2003-50287P P 20031023

OTHER SOURCE(S) :
GT

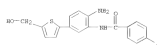
119 ANSWER 51 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)



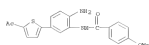
AB Title compds. 1 [Ar1 = (un)substituted, (un)substituted-mono or fused poly-cyclic hydrocarbyl optionally containing 1-4 heteroatoms per ring
2 = (un)substituted-mono-, -bi-, -tri-cyclic-aryl or -heterocyclic R2, R3, and R4 independently = H, halo, amino, etc.; R5 and R6 independently = H, alkyl, aryl, etc.; x = 0-1; Y = any pharmaceutically acceptable chemical moiety consisting of 1 to 10 atoms with provision; and their pharmaceutically acceptable salts, are prepared and disclosed as inhibitors of histone deacetylase. Thus, e.g., II is prepared by Suzuki coupling of 2-bromo-2-nitro-phenylamine (preparation given) with 2-thiophenecarboxylic acid followed by carbonylation with 4-(1,4-dimethoxy-(phenylamino)-methyl)benzoic acid (preparation given) and subsequent reduction. The inhibitory capability of 1 towards antiproliferative activity of histone deacetylase was evaluated using 3-(4,5-dimethyl(2-thiazolyl)-2-yl)-2,5-diphenyltetrazolium bromide (MTT) assay and it revealed that certain compds. of the invention had MTT IC 50 values in the range of below 1 up to 20 μ M. 7 as histone deacetylase inhibitors should prove useful in the treatment of diseases such as, but not limited to, cell proliferative disease, protofilar disease, and fungal disease.

IT 849237-46-3P
See PGC (Pharmacological activity); HCT (Reagent); SYN (Synthetic

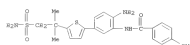
119 ANSWER 51 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
preparation); THP (Therapeutic use); RIGL (Biological study); PEP (Preparation); RACT (Reagent or reagent); USE (Use)
[Prep. of amide deriv. as inhibitors of histone deacetylase]
HN 849237-46-1 CAPLUS
CH Benzamide, N-[1-amino-5-[5-(hydroxyethyl)-2-thienyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)



IT 849237-45-4P 849237-80-7P 849237-82-5P
849237-84-7P 849237-85-9P 849237-89-7P
R1: PAC (Pharmacological activity); SYN (Synthetic preparation); THP (Therapeutic use); RIGL (Biological study); PEP (Preparation); USE (Use)
[Preparation of amide deriv. as inhibitors of histone deacetylase]
HN 849237-82-4 CAPLUS
CH Benzamide, N-[5-(5-acetyl-2-thienyl)-2-aminophenyl]-4-methoxy- (9CI) (CA INDEX NAME)

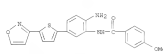


HN 849237-80-3 CAPLUS
CH Benzamide, N-[2-amino-5-[5-[2-(aminomethyl)-1,1-dimethylethyl]-2-thienyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)

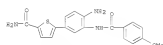


HN 849237-82-5 CAPLUS
CH Benzamide, N-[1-amino-5-[5-(1-aminomethyl)-2-thienyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)

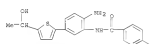
119 ANSWER 51 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)



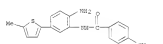
HN 849237-84-7 CAPLUS
CH 2-Thiophenecarboxamide, 5-[4-amino-3-[(4-methoxybenzoyl)amino]phenyl]- (9CI) (CA INDEX NAME)



HN 849237-85-8 CAPLUS
CH Benzamide, N-[2-amino-5-[5-[1-(hydroxyethyl)-2-thienyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)



HN 849237-99-7 CAPLUS
CH Benzamide, N-[2-amino-5-[5-methyl-2-thienyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)

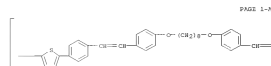


REFERENCE COUNT: 6 **THREE ARE CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE AS**

FORMAT

119 ANSWER 52 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM

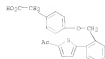
ACCESSION NUMBER: 2005107226 CAPLUS
DOCUMENT NUMBER: 143:27720
TITLE: Synthesis and luminescent properties of aromatic-thiophene copolymers
AUTHOR(S): Wu, Sheng-Ray; Tsai, Hsueh-Chao
CONTRIBUTOR SOURCE: Department of Chemical Engineering, National Chung Cheng University, Chiayi, 621, Taiwan
SOURCE: PSEI Preprints 12(2005), pp. 3-4
CODEN: PPMASJ; ISSN: 1525-4703
FILE INDEX: American Chemical Society
DOCUMENT TYPE: Journal (computer optical disk)
LANGUAGE: English
AB A series of thiophene-based photostable copolymers Poly 2-[4-(2-phenylthienyl)phenyl]-5-[4-(2-(4,8-octandiyldiethynylthienyl)phenyl]thiophene and Poly 2-[4-(2-3-ethoxyphenylthienyl)phenyl]-5-[4-(2-3-ethoxyphenylthienyl)phenyl]thiophene and Poly 2-[4-(2-3-ethoxyphenylthienyl)phenyl]thiophene consisting of alternating conjugated and nonconjugated segments were synthesized. IR-800 spectrum corroborated the well-defined structures, and both of copolymers were soluble in common organic solvents. The relative PL quantum efficiency were measured as 0.46 and 0.59 for these two copolymers, resp. As the results, the PL quantum efficiency increased with an increase in the electron-donating power of the substituents. Both copolymers emitted bluish-green to green light above the threshold bias of 5.0 V under the ambient condition.
IT 770720-62-2P 770720-68-8P
NA PEP (Preparation); SYN (Synthetic preparation); PEP (Preparation); synthesis and luminescent properties of aromatic-thiophene copolymers)
HN 770720-62-2 CAPLUS
CH Poly[2,5-thiophenediyl-1,4-phenylene-1,2-ethenediyl-1,4-phenylene-1,2-ethenediyl-1,4-phenylene-1,2-ethenediyl-1,4-phenylene-1,2-ethenediyl-1,4-phenylene] (9CI) (CA INDEX NAME)



PAGE 1-A

L13	APR 06, 56 OF 57 CAPSULE COPYRIGHT 2007 ACS on STM	(Continued)
IT	diabetes, cancer and obesity.	
	E3148-04-04, 6-[2-(3-Acetyl-2-thienyl)benzoyloxy]phenylacetic acid	
	RAC (Pharmacological activity); RNP (Synthetic preparation); TNO (Therapeutic use); E313 (Biological study); PMP (Preparation); US55 (Uses)	
	[preparation of benzene and phenylacetic acid derivs. as HRP-6 mediators]	
FN	E3144-04-04 CAPSULE	
	Benzeneacetic acid, 6-[12-(5-acetyl-2-thienyl)phenyl]methoxy- (9CI)	

321 833484-74-5 CAPLOS
 C02 Benzenesacetic acid, 4-[[2-(5-acetyl-2-thienyl)phenyl]methoxy]- (9CI) (CA
 INDEX NAME)



L19 ANSWER 57 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:1124546 CAPLUS
 DOCUMENT NUMBER: 142:49264
 TITLE: Aryl compounds and uses in modulating amyloid β
 INVENTOR(S): Cheng, Sean; Comer, Daniel D.; Mao, Long; Balow,
 Galt

PATENT ASSIGNEE(S): P, Playmet, David
SOURCE: Neurogenetics, Inc., USA
PCT Int. Appl., 178 pp.
CODING: PEXKID
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

[illegible]

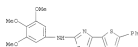
OTHER SOURCE(S): NARPAT 142:49264

AB Aryl compds., compms., and kits are provided. Methods of modulating AB levels, and methods of treating a disease associated with aberrant AB levels, are also provided. Preparation of compds., e.g. (I), (A1a)(B)1a(C1e)(D) is included.

IT 010667-19-5

BLA POC (Pharmacological activity) THE (Therapeutic use), REG.

119 ANSWER 57 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
(Biological study); USES (Uses)
(aryl compds. and uses in modulating amyloid β)
320 810663-19-5 CAPLUS
C3 2-Thiazolamine, 6-(5-phenyl-2-thienyl)-N-(3,4,5-trimethoxyphenyl)-
(a THENX NAME)



119 ANSWER 58 OF 250 CAPLUS COPYRIGHT 2007 ACS on STR
ACCESSION NUMBER: 2004:108454 CAPLUS
DOCUMENT NUMBER: 142:219658
TITLE:
Energy and Electron Transfer in
Non-Conjugated Dendrimers
Thomas, K. E. Justin; Thompson,

CORPORATE SOURCE: Thymannavan, S.
Department of Chemistry, Univer
Amherst, MA, 01003, USA
SOURCE: Journal of the American Chemical
127(1), 373-383
CODEN: JACSAT ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 14:219658
For more information send request to: casreac@cas.soc.sophia.ac.jp

OTHER SOURCE(S): CASREACT 142:239658

AB Nonconjugated dendrimers, which are capable of funneling energy from the periphery to the core followed by a charge-transfer process from the core to the periphery, were synthesized. The energy and electron donors involve a diarylanilinoxyrene unit and are incorporated at the periphery of these dendrimers. The energy and electron acceptor is at the core of the dendrimer, which involves a chromophore based on a benzthiadiazole

The backbone of the dendrimers is benzyl ether based. A direct electron-transfer quenching of the excited state of the periphery or a sequential energy transfer-electron-transfer pathway are the two limiting mechanisms of the observed photophysics properties. The latter mechanism

is prevalent in these dendrimers. The energy transfer occurs on a picosecond

time scale, while the charge-transfer process occurs on a nanosecond time scale. The lifetime of the charge separated species was in the range of microseconds. Energy transfer efficiency of 80-90% was determined using both

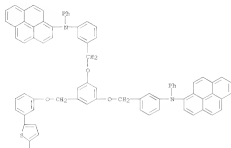
steady-state and time-resolved measurements, while charge-transfer efficiency of 70–80% was deduced from fluorescence quenching of the core chromophore. The dependence of the energy and charge-transfer processes on dendrimer generation is analyzed in terms of the backfolding of the flexible benzyl ether backbone, which leads to a weaker dependence of the energy and charge-transfer efficiency on dendrimer size than would be

17 expected for a rigid system.
040531-18-2P
KL: PEP (Properties); SPH (Synthetic preparation); PREP (Preparation)
[GI dendrimer; energy and electron transfer in a prepared benzyl ether
non-covalent dendrimers with benzothiadiazole core and

diarylamino)pyrene units)
EN 84031-18-2 CAPUS
CN 1-Pyrenamine, N,N',N'',N'''-[2,1,3-benzothiadiazole-4,7-diylbis[5,2-thioephene-1,2,1-phenylene)sulfonylene-5,1,3-trimethylbis[oxymethylene-2,3-bis(methylsulfonyl)cyclohexyl]methyl]-1,3,6-trimesic acid

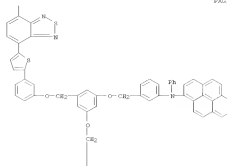
L19 ANSWER 58 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

PAGE 1-A



L19 ANSWER 58 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

PAGE 2-A



PAGE 3-A



REFERENCE COUNT: 98 THERE ARE 98 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L19 ANSWER 59 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

ACCESSION NUMBER: 2004:104997 CAPLUS

DOCUMENT NUMBER: 142:147935

TITLE: A Rational Utilization of High-Throughput Screening Affords Selective, Orally Bioavailable 1-Benzyl-3-carboxyacetamide Sphingosine-1-phosphate-1 Receptor Agonists

AUTHOR(S): Gale, Jeffrey J.; Lynch, Christopher L.; Neway, William M.; Sender, G.; Meyer, Richard; Sechane, Anne; Amy, Rosenbach, Mark J.; Hilligan, James A.; Shal, Yan-Ju; Parent, Stephen A.; Charette, Gary; Bergelson, James; Card, Deborah; Ferrer, Mary

EDITOR: Peter, Stanislawski; Bert, Joseph; Hugh, Mandala, Suzanne

CORPORATE SOURCE: Departments of Medicinal Chemistry and Immunology and Rheumatology Research, Merck Research Laboratories, Rahway, NJ, 07065, USA

SOURCE: Journal of Medicinal Chemistry (2004), 47(27), 6662-6665

CODEN: JMCMAH; ISSN: 0021-9623

PUBLISHED: American Chemical Society

DOCUMENT TYPE: Journal

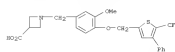
LANGUAGE: English

CROSS SOURCE(S): CASREACT 142:147935

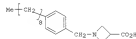
GI

L19 ANSWER 59 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

2-thienylmethoxyphenylmethyl)- (PC1) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT



I

AR Moderately potent, selective S1P3 receptor agonists identified from high-throughput screening have been adapted into lipophilic tails for a class of orally bioavailable amine acid-based S1P3 agonists represented

BY I. Many of the new compounds are potent S1P3 agonists that select against the S1P1, S1P2, and S1P4 (although not S1P5) receptor subtypes. Two of the analogs are highly orally bioavailable and possess excellent pharmacokinetic profiles in the rat, dog, and Chinese monkey.

IT 574(2):19-48

RI R1: PAC (Pharmacological activity); SPW (Synthetic preparation); TSD (Therapeutic use); B10L (Biological study); PREP (Preparation); USES (Uses)

RI 1-Benzyl-3-carboxyacetamide derivs. as S1P3 receptor agonists and immunosuppressants; high-throughput screening for oral bioavailability and preparation

RI 574(2):19-48 CAPLUS

CI 2-Acetamidobenzoic acid, 1-[[3-methoxy-6-[[4-phenyl-5-(trifluoromethyl)-

119 ANSWER 61 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM
 ACCESSION NUMBER: 2004190796 CAPLUS
 DOCUMENT NUMBER: 142127996
 TITLE: Improved studies of cross-coupling reactions of (tri-*n*-butylstannyl)- and 5,5'-bis(tri-*n*-butylstannyl)-2,2'-bithiophene with aryl halides
 AUTHOR(S): Bana, Egiyas, Abdel-Sattar S.
 CORPORATE SOURCE: Department of Chemistry, Faculty of Science, University of Ain Shams, Cairo, 11566, Egypt
 SOURCE: Journal of Heterocyclic Chemistry (2004), 41(5), 755-759
 CUSTOD. AGENCY: ISSN: 0022-152X
 JOURNAL: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 14210144

PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 14210144

AB Stille coupling under standard conditions proceeded in low yield when using
 hundred organotinones [1] or [2] and aryl iodide partners. The
 inclusion of aryl iodide instead of aryl bromide with the same
 organotinanes, significantly improves the efficiency of the coupling,
 providing a variety of desired products in good to excellent yield. The
 yields of Stille coupling are compared to the different reactivity of

aryl
 halides. This study of Stille coupling with different aryl halides are
 documented and rationalized.

IT 806149-70-3P
 EL 250 (Synthetic preparation) FRPE (Preparation)
 (Pd-catalyzed Stille cross-coupling reactions
 (tri-*n*-butylstannyl)bithiophene with aryl halides to give mono- and
 bis(bithiophenes))

EN 806149-70-1 CAPLUS
 CH 2,2'-Bithiophene, 5,5'-bis(2,4-dimethoxy-4-methylphenyl)- (SCI) (CA
 INDEX)

MeO

 Me

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

119 ANSWER 61 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM
 ACCESSION NUMBER: 2004190797 CAPLUS
 DOCUMENT NUMBER: 142127996
 TITLE: Molecular recognition: Studies on the synthesis of
 methylene pivotal bithiophene carbonyl
 derivatives

as diatomic receptors for ascaric acid
 AUTHOR(S): Brahma, Subramanian, Raju, Dipanjan, Jay, Suman, K.
 CORPORATE SOURCE: Department of Chemistry, Indian Institute of
 Technology, Patna, Patna, 726 013, India
 SOURCE: Supramolecular Chemistry (2004), 1(6), 447-452
 CUSTOD. AGENCY: ISSN: 1041-0778
 JOURNAL: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 14217796

PUBLISHER: Taylor & Francis Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 14217796

AB

AB New mol. receptors 1 (X = N, MeO) with diphenylmethane as a spacer and
 [antennae] groups complementary to ascaric acid have been developed. The
 high affinity of 1 (X = N) for ascaric acid has been found.

IT 847228-15-3P
 RU FRP (Preparation); SPH (Synthetic preparation) FRPE (Preparation)
 (Preparation and geometry of some of diphenylmethane-linked
 bis(bithiophene)s as diatomic receptors for mol. recognition
 of
 ascaric acid)

EN 847228-15-3 CAPLUS
 CH 2-Phenylmethane, 5,5'-bis(2,4-dimethoxy-4-methylphenyl)-bis(1,2-
 dimethoxyphenyl)- (SCI) (CA INDEX NAME)

MeO

 Me

AB

AB New mol. receptors 1 (X = N, MeO) with diphenylmethane as a spacer and
 [antennae] groups complementary to ascaric acid have been developed. The
 high affinity of 1 (X = N) for ascaric acid has been found.

IT 847228-15-3P
 RU FRP (Preparation); SPH (Synthetic preparation) FRPE (Preparation)
 (Preparation and geometry of some of diphenylmethane-linked
 bis(bithiophene)s as diatomic receptors for mol. recognition
 of
 ascaric acid)

EN 847228-15-3 CAPLUS
 CH 2-Phenylmethane, 5,5'-bis(2,4-dimethoxy-4-methylphenyl)-bis(1,2-
 dimethoxyphenyl)- (SCI) (CA INDEX NAME)

MeO

 Me

119 ANSWER 61 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

119 ANSWER 61 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM
 ACCESSION NUMBER: 2004190798 CAPLUS
 DOCUMENT NUMBER: 142127996
 TITLE: Novel hydroamides as histone deacetylase inhibitors,
 precursors for their preparations, pharmaceutical
 compositions and uses in the treatment of cancer and
 hepatitis C


INVENTOR(S): Verner, Eric J.; Sandil, Martin; Bakaran, Chitra;
 Patry, Joseph J.; Robinson, James
 PATENT ASSIGNEE(S): Anya Pharmaceuticals Inc., USA
 SOURCE: PCT Int. Appl., 149 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

AB

AB New mol. receptors 1 (X = N, MeO) with diphenylmethane as a spacer and
 [antennae] groups complementary to ascaric acid have been developed. The
 high affinity of 1 (X = N) for ascaric acid has been found.

IT 847228-15-3P
 RU FRP (Preparation); SPH (Synthetic preparation) FRPE (Preparation)
 (Preparation and geometry of some of diphenylmethane-linked
 bis(bithiophene)s as diatomic receptors for mol. recognition
 of
 ascaric acid)

EN 847228-15-3 CAPLUS
 CH 2-Phenylmethane, 5,5'-bis(2,4-dimethoxy-4-methylphenyl)-bis(1,2-
 dimethoxyphenyl)- (SCI) (CA INDEX NAME)

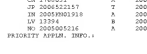
MeO

 Me

AB

AB New mol. receptors 1 (X = N, MeO) with diphenylmethane as a spacer and
 [antennae] groups complementary to ascaric acid have been developed. The
 high affinity of 1 (X = N) for ascaric acid has been found.

IT 847228-15-3P
 RU FRP (Preparation); SPH (Synthetic preparation) FRPE (Preparation)
 (Preparation and geometry of some of diphenylmethane-linked
 bis(bithiophene)s as diatomic receptors for mol. recognition
 of
 ascaric acid)

EN 847228-15-3 CAPLUS
 CH 2-Phenylmethane, 5,5'-bis(2,4-dimethoxy-4-methylphenyl)-bis(1,2-
 dimethoxyphenyl)- (SCI) (CA INDEX NAME)

MeO

 Me

AB

AB New mol. receptors 1 (X = N, MeO) with diphenylmethane as a spacer and
 [antennae] groups complementary to ascaric acid have been developed. The
 high affinity of 1 (X = N) for ascaric acid has been found.

IT 847228-15-3P
 RU FRP (Preparation); SPH (Synthetic preparation) FRPE (Preparation)
 (Preparation and geometry of some of diphenylmethane-linked
 bis(bithiophene)s as diatomic receptors for mol. recognition
 of
 ascaric acid)

EN 847228-15-3 CAPLUS
 CH 2-Phenylmethane, 5,5'-bis(2,4-dimethoxy-4-methylphenyl)-bis(1,2-
 dimethoxyphenyl)- (SCI) (CA INDEX NAME)

MeO

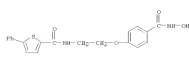
 Me

L12 ANIML6 62 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

X2
Tate compound. 1 [wherein X = O, NR2 or S(R)2; n = 0-2; R3, R2 = H or
alkyl; R1 = alkyl(hydroxyalkyl)alkoxy, alkyl(hydroxyalkyl)alkyl, alkyl(hydroxyalkyl)alkyl
or heterocycloalkyl; R4 = H, (hydroxyalkyl) or (substituted alkyl); R5 =
alkyl(hydroxyalkyl)alkyl(hydroxyalkyl)alkyl(hydroxyalkyl)alkyl(hydroxyalkyl)alkyl(hydroxyalkyl)
phenylacetate(s) acceptable salts thereof] were prepared. Pharmaceutical
compositions comprising 1 and processes for the prepara. of and their
use in the treatment of diseases associated with the action of the enzyme
deacetylase (HDAC) and therefore are useful in the treatment of diseases
associated with HDAC activity. In the adult rat, they are also useful in
the
treatment of hepatitis C. In the adult rat, they were found to inhibit
the
growth of E712 tumor cells, and most of them had LD50 values of ≤ 400 mg/kg.
Thus, these compounds are useful in the treatment of diseases associated with
3-methyl-benzoate-2-methylacetyl-ester, via esterification with
3-methyl-benzoate-2-methylacetyl-ester, and also in the treatment of diseases
associated with HDAC inhibition, substitution of the benzoate with
dimethylacetate,
ester hydrolysis, coupling with Me 4-(2-aminoethoxy)benzoate and
coupling with Me 4-(2-aminoethoxy)benzoate and

IT 780353-29-7P
NE PAC (Pharmacological activity); SYN (Synthetic preparation); TBU (Therapeutic use); BIOLO (Biological study); PREP (Preparation); USES (Uses)
[Cancer]
[drug candidate; preparation of novel hydroxamates as histone deacetylase inhibitors for the treatment of cancer and hepatitis C]
NEI 780353-29-7 CASLDS
CN 780353-29-7 CASLDS
phenyl- (SC1) (CA INDEXER NAME)

L19 ANSWER 62 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



UNCLAS ANNUAL 63 OF 250	CAPLOS COP39387 2007 ACS on 978
ANNUAL NUMBER:	20044861030 CAPLOS
DOCUMENT NUMBER:	142-56337
TITLE:	Synthesis, Self-Assembly, and Characterization of Supramolecular Polymers from Electroactive Dendron Radical Molecules
AUTHOR(S):	Meunier, Benjamin W.; Rivalt, James F.; Sone, Eli D.
CORPORATE SOURCE:	Step, Samuel I. Department of Chemistry, the Department of Materials Science Engineering, and the Weinberg School of Medicine, Northwestern University, Evanston, IL, 60209, USA
SOURCE:	Journal of the American Chemical Society (2004), 126(14), 14432-14438
PUBLISHER:	AMERICAN CHEMICAL SOCIETY
LANGUAGE:	English

DATA SOURCE(S): CASREACT No. 56397

SYNOPSIS: This review describes the assembly of a series of three moles with dendron rodcof architecture that contain conjugated segments of aliphatic thioether, aliphatic ether, and aliphatic amine moieties. Despite their structural differences, all three moles yield similar self-assembled structures. Electron and atomic force microscopy reveal the self-assembly of the moles into high aspect ratio ribbon-like structures, which are composed of a series of parallel nanoribbons. The self-assembly results in a blue-shifted absorption spectrum and a red-shifted, quenched fluorescence spectrum, in contrast to aggregation of the conjugated segments within the ribbon-like structures. The assembly of the moles into one-dimensional structures is dependent on the presence of stacked supramolecular polymers for organic electronic functions. The aliphatic thioether derivative, self-assembly leads to a 3-fold increase in the conductivity of iodine-doped films due to self-assembly. The aliphatic ether derivative, self-assembly results in a 10-fold increase that elicit alignment of these supramolecular assemblies can be used to create arrays of self-assembled nanowires on a device substrate.

REFERENCE: B00142-59 B00142-55-50

REMARKS: 1. (Preparation) (Synthetic preparation) PREP (Preparation) synthesis, self-assembly, and characterization of supramolecular polymers and self-assembled dendron rodcof moieties.)

2. B00142-50-20 C00125

3. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-carboxylic acid and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

4. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

5. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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7. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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9. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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13. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

14. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

15. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

16. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

17. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

18. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

19. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

20. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

21. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

22. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

23. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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26. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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28. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

29. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

30. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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32. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

33. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

34. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

35. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

36. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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39. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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41. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

42. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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47. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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53. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

54. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

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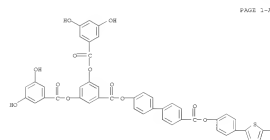
57. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

58. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol


59. [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol and [2,2',3',2'']-[3,3'-Quaterthiophene]-5,8-dithiol

60. [2,2',3',2'']-[3,3'-Qu

119 ANSWER 63 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)



PAGE 1-3



100 80414-68-6 CASLON
C9 [2,2',5',5''-Quaterthiophene]-5-carboxylic acid,
5'',5'''-[4-[[1,3,5-triaz[5,5-dihydro]thiazol[5,4-b]thiazol-2-yl]phenyl]-

RM 808142-65-6 CAPLUS
 CN [2,2':5',2'':5'',2'''-Quaterthiophene]-5-carboxylic acid,
 5'''-[4-{[3,5-bis{[3,5-dihydroxybenzoyloxy]benzoyloxy]phenyl}-
 2-oxyloxy]ester [9C] (CA INDEX NAME)

L19 ANSWER 63 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)

L19 ANSWER 63 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)

PAGE 1-A

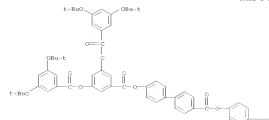
PAGE 1-A



PAGE 1-B

PAGE 1-B

IT 504142-49-6P
 R1a RCT (Reagent); SPH (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (epitaxial, self-assembly, and characterization of supramolecular polymers from electroactive dendronized rodlike moieties.)
 ZH 504142-49-6 CAPLUS
 CH [2,2',5',5'',5''',5''''-Quaterthiophene]-5-carboxylic acid,
 5''''-[4-[[14'']-[3,5-bis[1',5-bis[1',3-dimethylthio]benzoyloxy]benzoyloxy]p-1',2'-biphenyl]-4'-yl]benzoyloxy]benzoyloxy]-2-oxylbenzoyl ester (SCI)
 (CA INDEX NAME)

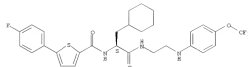


REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 64 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 INVENTOR: 2004117646 CAPLUS
 INVENTOR: 141329438
 TITLE: Inhibitors of cathepsin S for use in disease
 INVENTOR: 151
 LIA, Hong; Tilly, David; Apple, Robert; Buzaleva, Bedy; Williams, Jennifer; Chatterjee, Annu; Harris, Jennifer; Leslie, Li; Sun, JIM LIF, Barbara
 PATENT ASSIGNED(S): POT Int. Appl., 146 pp.
 SOURCE: CORDON P14622
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC: HUM. CONTRA
 PATENT INFORMATION: 1

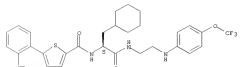
L19 ANSWER 64 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 INVENTOR: 2004117646 CAPLUS
 INVENTOR: 141329438
 TITLE: Inhibitors of cathepsin S for use in disease
 INVENTOR: 151
 LIA, Hong; Tilly, David; Apple, Robert; Buzaleva, Bedy; Williams, Jennifer; Chatterjee, Annu; Harris, Jennifer; Leslie, Li; Sun, JIM LIF, Barbara
 PATENT ASSIGNED(S): POT Int. Appl., 146 pp.
 SOURCE: CORDON P14622
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC: HUM. CONTRA
 PATENT INFORMATION: 1

Absolute stereochemistry.



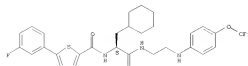
IN 768263-90-2 CAPLUS
 CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-[2-(trifluoromethyl)phenyl]-5-(1-SC)] (CA INDEX NAME)

Absolute stereochemistry.



IN 768263-91-3 CAPLUS
 CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-[3-(4-methoxyphenyl)-5-(1-SC)] (CA INDEX NAME)

Absolute stereochemistry.



IN 768263-96-8 CAPLUS
 CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-[3-(4-methoxyphenyl)-5-(1-SC)] (CA INDEX NAME)

PATENT INFO. KING DATE APPLICATION NO. DATE
 WO 2004084842 A2 20041007 WO 2004-089218 20040324
 W AE, AG, AL, AN, AT, AU, BA, BB, BG, BR, BW, BY, BE, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, DO, EE, EG, ES, FI, GB, GR, GU, HK, HU, IL, IN, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LB, LI, LU, LV, MA, MD, ME, MG, MK, MN, MU, MV, MW, MX, MY, NZ, NI, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RU, SA, SD, SE, SG, SI, SK, SL, SM, SN, SV, TH, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 IN 768263-90-2 CAPLUS
 IN 768263-91-3 CAPLUS
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 US 2004187820 A2 20040919
 PRIORITY APPAR. INFO. US 2004-076112 A 20040323

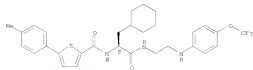
OTHER SOURCE(S): MARCH 11, 2006
 AS The present invention provides M-115-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(substituted)phenyl]amino]ethyl]amino]ethyl]-5-[3-(4-methoxyphenyl)-5-(1-SC)] compounds and methods for the selective inhibition of cathepsin S. In a preferred aspect, cathepsin S is selectively inhibited in the presence of at least one other cathepsin isoenzyme (e.g., cathepsin F). The present invention also provides methods for treating a disease state as a subject by selectively inhibiting cathepsin S.

IT 768263-94-4P 768263-95-2P 768263-91-3P
 768263-96-8P 768264-01-5P 768264-04-1P
 768264-16-5P 768263-43-1P 768263-45-3P
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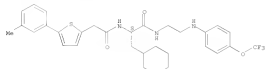
RU 768263-94-4P 768263-95-2P 768263-91-3P
 THO (Therapeutic use); RCT (Biological study); PREP (Preparation); UNES (Unes)
 (Inhibitors of cathepsin S for use in disease treatment)

IN 768263-94-4 CAPLUS
 CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-[3-(4-methoxyphenyl)-5-(1-SC)] (CA INDEX NAME)

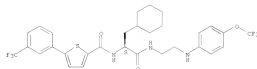
119 ANSWER 64 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Absolute stereochemistry.



9C1 768364-01-3 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-(3-methylphenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

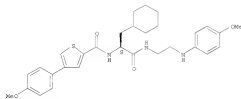


9C1 768364-04-1 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-(3-methylphenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

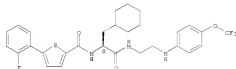


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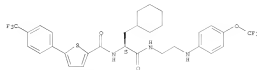
119 ANSWER 64 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



9C1 768365-14-4 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-(2-fluorophenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

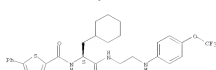


9C1 768365-19-8 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-(4-(trifluoromethyl)phenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

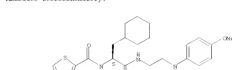


9C1 768365-60-2 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-(4-(trifluoromethyl)phenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

119 ANSWER 64 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-phenyl- (9C1) (CA INDEX NAME)
Absolute stereochemistry.



9C1 768365-43-1 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-[[2-[[4-(4-methoxyphenyl)amino]ethyl]amino]ethyl]-4-(4-fluorophenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.



9C1 768365-45-3 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-[[2-[[4-(4-methoxyphenyl)amino]ethyl]amino]ethyl]-4-(4-methoxyphenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

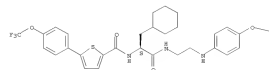
9C1 768365-45-3 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-[[2-[[4-(4-methoxyphenyl)amino]ethyl]amino]ethyl]-4-(4-methoxyphenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

9C1 768365-45-3 CAPLUS

119 ANSWER 64 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(trifluoromethyl)phenyl)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

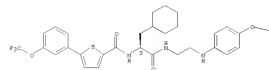


PAGE 1-B

CF3

9C1 768365-62-4 CAPLUS
CN 2-Thiophenecarboxamide, N-[(1S)-1-(cyclohexylmethyl)-2-oxo-2-[[2-[[4-(trifluoromethyl)phenyl]amino]ethyl]amino]ethyl]-5-(3-(trifluoromethyl)phenyl)- (9C1) (CA INDEX NAME)
Absolute stereochemistry.

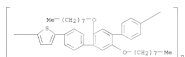
PAGE 1-A



PAGE 1-B

CF3

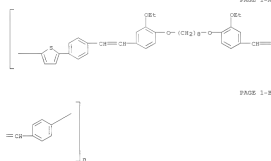
119 ANHEIM 69 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004/462448 CAPLUS
 DOCUMENT NUMBER: 141332565
 TITLE: Synthesis and characterization of new light-emitting copolymers in polymer-light-emitting-diode device fabrications
 AUTHOR(S): Wu, Sheng-Hay; Shen, Chi-Hsiung; Chen, Jui-Hung; Hsu, Chi-Cheng; Tsai, Raymond Chien-Chao
 CORPORATE SOURCE: Department of Chemical Engineering, National Chung Cheng University, Chiayi, 621, Taiwan
 JOURNAL: Journal of Polymer Science, Part A: Polymer Chemistry (2004), 42(16), 3944-3948
 CODEN: JPAC; ISSN: 0887-624X
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: English
 AB: Polymer series of thiophene-containing photovoltaic copolymers consisting of alternating conjugated and nonconjugated segments were synthesized. The copolymers not only were soluble in common organic solvents but also had high glass-transition temps. (ca. 130°) and good thermal stability up to 390°. Introducing aliphatic functional groups, such as alkyl or alkoxy, into chromophores of the copolymers red shifted the photoluminescence spectra and lowered the optical bandgaps. The electrochromic bandgaps calculated from optical absorbance and photoluminescence originated from the same excited state. The energy levels (HOMO and LUMO) of all the copolymers were lower than those of poly(2-methoxy-5-[2'-ethylhexyloxy]-1,4-phenyleneethynylene) (PEH-PPV), indicating balanced hole and electron injection, which led to improved performance in both single-layer and double-layer polymer light-emitting diode devices fabricated with these copolymers. All the copolymers emitted bluish-green or green light above the threshold bias of 5.0 V under ambient conditions. At the maximum bias of 10 V, the electroluminescence of a device made of poly(2-[4-(2-[3-ethoxyphenyl]ethynylphenyl]-5-[4-(2-[3-ethoxyphenyl]ethynylphenyl)]thiophene) was 5836 cd/m². The external electroluminescence efficiency decreased with the lifetime as the polymer degraded.



REFERENCE COPY: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

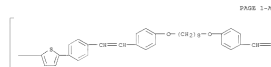
FORMAT

119 ANHEIM 69 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



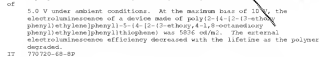
PAGE 1-B

IT 770720-62-2P 770720-64-6P 770720-66-6P
 EL: PPV (Prepolymer); SPN (Synthetic preparation); PREP (Preparation) (preparation and characterization of thiophene-containing photovoltaic copolymers)
 IN: polymeric light-emitting-diode device fabrications
 HN 770720-62-2 CAPLUS
 CN Poly(2,5-thiophenediyl-1,4-phenylene-1,2-ethenediyl-1,4-phenyleneoxy-1,8-octanedioxy-1,4-phenylene-1,2-ethenediyl-1,4-phenylene) (SCI) (CA INDEX NAME)



PAGE 1-A

119 ANHEIM 69 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004/462448 CAPLUS
 DOCUMENT NUMBER: 141332565
 TITLE: Synthesis and characterization of new light-emitting copolymers in polymer-light-emitting-diode device fabrications
 AUTHOR(S): Wu, Sheng-Hay; Shen, Chi-Hsiung; Chen, Jui-Hung; Hsu, Chi-Cheng; Tsai, Raymond Chien-Chao
 CORPORATE SOURCE: Department of Chemical Engineering, National Chung Cheng University, Chiayi, 621, Taiwan
 JOURNAL: Journal of Polymer Science, Part A: Polymer Chemistry (2004), 42(16), 3944-3948
 CODEN: JPAC; ISSN: 0887-624X
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: English
 AB: Polymer series of thiophene-containing photovoltaic copolymers consisting of alternating conjugated and nonconjugated segments were synthesized. The copolymers not only were soluble in common organic solvents but also had high glass-transition temps. (ca. 130°) and good thermal stability up to 390°. Introducing aliphatic functional groups, such as alkyl or alkoxy, into chromophores of the copolymers red shifted the photoluminescence spectra and lowered the optical bandgaps. The electrochromic bandgaps calculated from optical absorbance and photoluminescence originated from the same excited state. The energy levels (HOMO and LUMO) of all the copolymers were lower than those of poly(2-methoxy-5-[2'-ethylhexyloxy]-1,4-phenyleneethynylene) (PEH-PPV), indicating balanced hole and electron injection, which led to improved performance in both single-layer and double-layer polymer light-emitting diode devices fabricated with these copolymers. All the copolymers emitted bluish-green or green light above the threshold bias of 5.0 V under ambient conditions. At the maximum bias of 10 V, the electroluminescence of a device made of poly(2-[4-(2-[3-ethoxyphenyl]ethynylphenyl]-5-[4-(2-[3-ethoxyphenyl]ethynylphenyl)]thiophene) was 5836 cd/m². The external electroluminescence efficiency decreased with the lifetime as the polymer degraded.



REFERENCE COPY: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

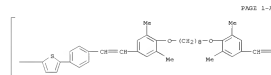
FORMAT

119 ANHEIM 69 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



PAGE 1-B

HN 770720-64-4 CAPLUS
 CN Poly(2,5-thiophenediyl-1,4-phenylene-1,2-ethenediyl(2,5-dimethoxy-1,4-phenylene)oxy-1,8-octanedioxy(2,6-dimethoxy-1,4-phenylene)-1,2-ethenediyl-1,4-phenylene) (SCI) (CA INDEX NAME)

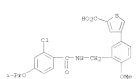


PAGE 1-A

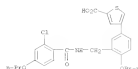
HN 770720-66-6 CAPLUS
 CN Poly(2,5-thiophenediyl-1,4-phenylene-1,2-ethenediyl(2,5-dimethoxy-1,4-phenylene)oxy-1,8-octanedioxy(2,6-dimethoxy-1,4-phenylene)-1,2-ethenediyl-1,4-phenylene) (SCI) (CA INDEX NAME)

PAGE 1-B

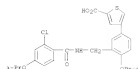
L19 ANSWER T2 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



38 498272-60-0 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-[3-[[2-chloro-4-(propoxyphenyl)amino]methyl]-4-propoxyphenyl]- (PCI) (CA INDEX NAME)



39 498272-61-1 CAPLUS
 CN 2-Thiophenecarboxylic acid, 4-[3-[[2-chloro-4-(1-methylthio)phenyl]amino]methyl]-4-propoxyphenyl]- (PCI) (CA INDEX NAME)



L19 ANSWER T2 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2004:45392 CAPLUS
 141:6939

DOCUMENT NUMBER: Preparation of substituted aralkyl derivatives as

TITLE: antidiabetic, hypolipidemic and hypocholesterolemic

INVENTOR(S): agents

LOHAPY, ROY BHUSHAN LOHAPY, VIDYA BHUSHAN (AIR,

MOHAI S.; NAYY, RAJESH TUMOLA, NARASIMHORE, RAVAL,

SURESH K.; RAVAL, PREMESH S.

CAULIA BUSHAN LIMITED, INDIA

IPC Int. Appl., 114 pp.

CLASS: FICARD

LANGUAGE: Patent

FAMILY KEY, NUM. CONT. English

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004046133 A1 20040603 WO 2003-103558 20031115

WI AU, AG, AL, AM, AT, AU, BA, BB, BG, BR, BS, CA, CH, CN,

CO, CU, CY, CZ, DE, DK, EE, EG, ES, FI, FR, GB, GR, HU,

IL, IN, JP, KE, KR, KZ, LB, LU, LV, LY, MC, MD, ME,

MG, MK, MN, MU, MW, MY, NZ, OM, PA, PE, PG, PH, PI,

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SV, TH, TN, TR,

UA, UK, US, UZ, VC, VN, YU, ZA, ZM, ZW

IN: BW, GB, GR, HU, IL, IN, JP, KE, KR, KZ, LB, LU, LV, LY,

MC, MD, ME, MG, MK, MN, MU, MW, MY, NZ, OM, PA, PE,

PG, PH, PI, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SV,

TH, TN, TR, UA, UK, US, UZ, VC, VN, YU, ZA, ZM, ZW

TU

IN 5950800992 A 20040901 IN 2002-067992 20021115

IN 5950800992 A 20040901 IN 2002-067992 20021115

CA 2506112 A1 20040603 CA 2003-2506112 20031114

AO 2003302313 A1 20040615 AO 2003-302313 20031114

EP 1569346 EP 20030907 EP 2003-090341 20031114

RU 2003015113 A 20040913 RU 2003-015113 20031114

BR 2003015113 A 20040913 BR 2003-015113 20031114

CH 1738807 CN 20030222 CN 2003-022222 20031114

JP 594514976 T 20040518 JP 2004-594518 20031114

MG 20030405063 A 20040916 MG 2003-0405063 20031114

WO 2005024413 A 20050706 WO 2005-24413 20050523

US 2004142877 A1 20040629 US 2004-142877 20051118

PRIORITY AFFIL. INFO.: IN 2002-067992 A 20021115

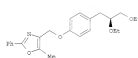
IN 2003-067992 A 20030912

WO 2003-103558 W 20031114

OTHER SOURCE(S): NARPAT 141:6939

GI

L19 ANSWER T2 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



AB The present invention relates to novel substituted aralkyl deriva. of
 formula A1C10b-A1C10B15 (A = (substituted) aryl, heteroaryl, heterocyclyl; n = 1-3; X = O, S; Ar = aromatic, heteroaryl, or heterocyclyl; R1 = (substituted) amino, (substituted) CH3, CH, CN, COOH, tetraalkyl, etc.; R2 = H, alkyl, cycloalkyl; their deriva., their analogs, their tautomeric forms, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates, pharmaceutically compns.

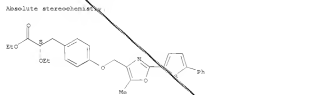
containing them, use of these compds. in medicine and the intermediates involved in their preparation. The compds. are useful as antidiabetic, hypolipidemic and hypocholesterolemic agents. Thus, I was prepared, and lowered serum triglyceride as well as albumin nide by 78%.

IT 69444-77-9 69444-81-13 69444-07-43
 RI: PAC (Pharmaceutical activity); SPM (Synthetic preparation); TMO (Therapeutic use); MEO (Biological study); PREP (Preparation); USES (Uses).

[preparation of aralkyl deriva. as antidiabetic, hypolipidemic and hypocholesterolemic agents]

38 69444-77-5 CAPLUS
 CN Benzenecarboxylic acid, 4-ethoxy-4-[2-[5-methyl-2-(3-phenyl-2-thienyl)-4-oxazolyl]ethoxy]-, ethyl ester, (4S) (PCI) (CA INDEX NAME)

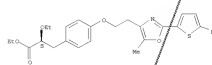
Absolute stereochemistry:



39 69444-81-1 CAPLUS
 CN Benzenecarboxylic acid, 4-ethoxy-4-[2-[5-methyl-2-(3-phenyl-2-thienyl)-4-oxazolyl]ethoxy]-, ethyl ester, (4S) (PCI) (CA INDEX NAME)

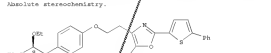
Absolute stereochemistry:

L19 ANSWER T2 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



38 69444-07-4 CAPLUS
 CN Benzenecarboxylic acid, 4-ethoxy-4-[2-[5-methyl-2-(3-phenyl-2-thienyl)-4-oxazolyl]ethoxy]-, (4S) (PCI) (CA INDEX NAME)

Absolute stereochemistry:



119 ANSWER 73 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STM

ACCESSION NUMBER: 2004:390237 CAPLOS

142(458742)

TITLE: Preparation of ethynylpyridines and related compounds as melanin-concentrating hormone receptor (MCH-R) antagonist for the treatment of metabolic disorders.

INVENTOR(S): Mueller, Stephan-Georg; Stenkamp, Dirk; Arndt, Elzabeth; Joch, Gerald; Jurgens, Ralf; Reich, Barbara; Lehmann-Land, Thorsten; Lenter, Martin; Lautenberger, Philipp; Jendry, Klaus

PATENT ASSIGNER(S): PCT Int. Appl., 348 pp.

SOURCE: COINVENTOR

DOCUMENT TYPE: Patent

LANGUAGES: German

FAMILY ACC. NUM. COMENT:

PRIORITY INFORMATION:

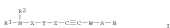
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2004019780	AL	20040131	NO 2003-021887	20031025
WI AE, AG, AU, AM, AT, BR, CA, CH, CN, CO, CU, CY, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LG, LI, LU, LV, LT, LV, MD, MG, MK, MN, MU, MY, NL, NO, NZ, OM, PK, PT, RU, SE, SG, SI, SK, SL, SM, SN, SV, TH, TT, TZ, TW, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
786 GB, OM, PK, SE, SG, SI, SK, SL, SM, SN, SV, TH, TT, TZ, TW, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LG, LI, LU, LV, LT, LV, MD, MG, MK, MN, MU, MY, NL, NO, NZ, OM, PK, PT, RU, SE, SG, SI, SK, SL, SM, SN, SV, TH, TT, TZ, TW, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
DE 10209108	AL	20040209	DE 2002-1020708	20021001
CA 2304409	AL	20040201	CA 2002-2304409	20021003
NO 2002102007	AL	20040209	NO 2002-200207	20021025
EP 1418378	AL	20040209	EP 2002-609784	20021025
FI, AT, BE, CH, DE, DK, EE, ES, FI, FR, GB, GR, IT, LI, LT, LV, LU, NL, NO, NZ, OM, PK, PT, RU, SE, SG, SI, SK, SL, SM, SN, SV, TH, TT, TZ, TW, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RU 2007014839	A	20050830	RU 2003-14839	20031025
CH 312124	A	20040209	CH 2003-80126/05	20031025
JP 2004111492	T	20040406	JP 2004-54766	20031025
US 2004024945	AL	20040201	US 2003-47943	20031030
NO 2002102149	A	20040209	NO 2002-102149	20021025
MX 2005126228	A	20050930	MX 2005-126228	20050405
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			US 2003-456439	P 20030301
			NO 2003-EP1887	M 20031025

OTHER SOURCE(S):

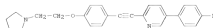
G2 MURPAT 140:406742

119 ANSWER 73 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STM

(Continued)



II



III

AB Title compds. I (R¹, R² = H, (un)substituted alkyl, cycloalkyl, etoxy X = alkyl, alkenyl, alkoxy, etc.; Y = H, Z = alkyls with proviso: Y = Cy with proviso: A = Cy, B = Cy, alkyl, alkenyl, etc.; Cy = (un)substituted carbocyclic, heterocyclic and their pharmaceutically acceptable salts and formulations were prepared. For example, palladium mediated coupling of bromopyridine II, e.g., prepared from 4-iodophenol in 2-steps, and 4-bromobenzonitrile afforded compound ethynylpyridine III in 11% yield. In melanin concentrating hormone receptor (MCH-R) binding assays,

2-examples of compds. I exhibited IC50 values ranging from 8-74 nM, e.g., the IC50 of ethynylpyridine III was 8 nM. Compds. I are claimed useful for the treatment of metabolic disorders and/or eating disorders, in particular, obesity, bulimia, anorexia, hyperphagia and diabetes.

IT R1a PAC (Pharmacological activity); SPN (Synthetic preparation); TEU (Therapeutic use); NIG (Biological study); PAF (Preparation); USES (Uses)

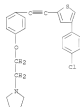
[Preparation of ethynylpyridines and related compds. as melanin-concentrating hormone receptor (MCH-R) antagonist for the treatment of metabolic disorders.]

BR 690246-85-4 CAPLOS

CH Pyridolines

1-[2-[4-[(4-(4-chlorophenyl)-2-thienylethynyl)phenoylethyl]-3-yl]] (CA 10854 NMR)

119 ANSWER 73 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STM (Continued)



119 ANSWER 74 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STM

ACCESSION NUMBER: 2004:113577 CAPLOS

140(157386)

TITLE: Preparation of piperazine and homopiperazine derivatives for treatment of nausea.

INVENTOR(S): Natsuki, Chikage; Rodama, Tatsuhiko; Doi, Takeshi; Tamura, Masahiko; Oda, Toshiaki; Okabe, Masao

PATENT ASSIGNER(S): Rowe Co., Ltd., Japan

SOURCE: PCT Int. Appl., 124 pp.

CODEN: P1ALD2

DOCUMENT TYPE: Patent

LANGUAGES: Japanese

FAMILY ACC. NUM. COMENT:

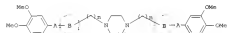
PRIORITY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2004023933	AL	20040417	NO 2003-373047	20031010
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MX 2003712973	AL	20040304	MX 2003-271297	20031010
NO 2002712973	AL	20040304	NO 2002-417649	P 20021011
PRIORITY APPL. INFO.:			NO 2003-EP1247	M 20031010

OTHER SOURCE(S):

G2 MURPAT 140:57386

G1



I



II



III

119 ANSWER 74 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

AB The title compds. 1 [wherein A = a single bond, C-phenyl, C-OMe, or HCO₂; ring B = heterocyclic, etc.; n = 1 or 2; R = 1-5] or salts, or hydrates thereof are prepared for the treatment of cancers. For example, the compound 11 was prepared in a multi-step synthetic comprising reaction of 4-(chloromethyl)-5-(3,4,5-trimethoxyphenyl)pyridine (preparation given)

and piperazine (12). 11 showed strong anticancer effect against various cancers, such as human breast cancer, colorectal cancer, lung cancer, gastric cancer, and prostate cancer. Populations containing 1 as an ingredient were also described.

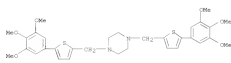
IT 473844-14-3P 68127-34-9
 RI PAC (Pharmacological activity); SPN (Synthetic preparation); TSD (Therapeutic use); RIG (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; preparation of piperazine and homopiperazine derivative)

for
 (treatment of cancers)

RI 473844-14-3 CAPLUS
 CH Piperazine, 1-[4-bis[5-(3,4,5-trimethoxyphenyl)-2-thienyl]methyl]-, (1S)-1-Butenedioate (1:1) (92) (CA INDEX NAME)

CH 3

CHN 473844-13-2
 CHN C32 H39 N1 O6 S2



CH 2

CHN 119-16-7
 CHN C4 H4 O4

Double bond geometry as shown.

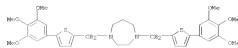


119 ANSWER 74 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

RI 681277-34-9 CAPLUS
 CH 18-1,4-bisazepane, hexahydro-1,4-bis[5-(3,4,5-trimethoxyphenyl)-2-thienyl]methyl-, (2S)-2-Butenedioate (1:1) (92) (CA INDEX NAME)

CH 1

CHN 473844-15-4
 CHN C32 H40 N1 O6 S2



CH 2

CHN 119-17-8
 CHN C4 H4 O4

Double bond geometry as shown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

FORMAT

119 ANSWER 75 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

ACCESSION NUMBER: 2004131149 CAPLUS
 DOCUMENT NUMBER: 149339318

TITLE: Preparation of 1,3-oxazol-2-amine as VEGFR2, CDK2, and CDK4 inhibitors
 INVENTOR(S): Brown, Matthew Leay Cheung, Naji Dickerson, Scott Howard, Gavriel, Alexander Barile, Philip Anthony Senter, Robert Neil, III, Pasolunghi, Gregory Paul, Michael Robert Stafford, Jeffrey Alan

PATENT ASSIGNOR(S): Smithkline Beecham Corporation, USA
 SOURCE: PCT Int. Appl., 213 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2004022892 A2 20040422 WO 2003-082331.7 20031010
 WO 2004022892 A3 20040708

W: AS, AG, AU, AM, AT, NO, NZ, BR, BS, BG, BY, BE, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, ES, FI, FR, GB, GR, HU, IE, JP, KR, KZ, LU, MC, MG, MK, MN, MU, NL, PL, PT, RU, SE, SI, SK, ST, SV, TH, TR, UA, UZ, VN, YU, ZA, ZM, ZW

RM: GB, GR, HU, IE, JP, KR, KZ, LU, MC, MG, MN, MU, NL, PL, PT, RU, SE, SI, SK, ST, SV, TH, TR, UA, UZ, VN, YU, ZA, ZM, ZW

FI, FR, GB, GR, HU, IE, JP, KR, KZ, LU, MC, MG, MN, MU, NL, PL, PT, RU, SE, SI, SK, ST, SV, TH, TR, UA, UZ, VN, YU, ZA, ZM, ZW

EP, AS, CY, CO, CH, CN, DM, GR, GO, GM, ML, MM, NE, NI, NZ, TG, TO

AC 200311178 A1 20040505 AP 2003-287178 20031010
 EP 1518123 20050713 EP 2003-781517 20031010

A: AT, BE, CA, CH, CN, CY, DE, DK, DM, ES, FI, FR, GB, GR, HU, IE, JP, KR, KZ, LU, MC, MG, MN, MU, NL, PL, PT, RU, SE, SI, SK, ST, SV, TH, TR, UA, UZ, VN, YU, ZA, ZM, ZW

JP 2004050841 20050713 JP 2004-547399 20031010
 US 2003285515 A1 20051229 US 2005-530610 20050408

US 759912 A2 20050313 20031010
 US 2001144397 20050701 20070201

PROBABLE APPL. INFO.:
 US 2002-417489 P 20021010
 WO 2003-082331.7 M 20031010
 US 2005-530610 A3 20050408

OTHER SOURCE(S): MARRAT 140:339318

GI



119 ANSWER 75 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

AB The title compds. 1 [D1 = (un)substituted aryl, heterocaryl, heterocyclyl;
 D2 = H, alkyl; D3 = (un)substituted aryl, heterocaryl] which are useful as VEGFR2, CDK2, and CDK4 inhibitors in the treatment of hyperproliferative diseases, were prepared 3,4-, 5-6-step syntheses of 1 [D1 = 3-MeOC6H4;
 D2 = H; D3 = Ph], starting from 2-bromo-1-[3-methoxyphenyl]ethanone, was given.

Different compds. 1 are particularly effective at inhibiting CDK2 and/or CDK4 enzymes at 0.001 to 1 μM and addnl. show specificity relative to other kinases. The specific data for representative compds. 1 are given. The pharmaceutical compds. comprising the compound 1 are claimed.

IT 681054-04-6P, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-(3-(5-methylthien-2-yl)phenyl)-1,3-oxazol-2-amine

RI PAC (Pharmacological activity); SPN (Synthetic preparation); TSD (Therapeutic use); RIG (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1,3-oxazol-2-amine as VEGFR2, CDK2, and CDK4 inhibitors for treating cancer)

RI 681054-04-6 CAPLUS
 CH 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

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CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

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CHN 2-Oxazolamine, N-[5-(ethoxycarbonyl)-2-methoxyphenyl]-5-[3-(5-methylthien-2-yl)phenyl]- (1:1) (CA INDEX NAME)

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112 ANSML 86 OF 250 CAPLUS COPYRIGHT 2027 ACS on STN (Continued)

119 ANSWER 81 OF 250 CAPLID

OTHER SOURCE(S): NAC

GI



AB Title compds. [1; A1 =
carboxycyloxy carbonyl, he
A2A3C = (substituted) h
CR132];
E2 = (substituted) alky
alkylcyloalkylalkyl; E

	bood, (substituted) alk
	alkenyl, alkyl, alko-
	-
	H, (substituted) alkyl
	were prepared
	anopentyl(aryl)phenyl]au
	1,1-dimethyl-2-ethyl ester
Me/ES	and En2 to give 814 op-
	yl-4-hydroxybenzoate, isole,
	hydrochloride, N-methyl
	give 704 TSP-protected
EC1	an diacene/Me/ES to give
	pentenyl(aryl)phenyl]au
	This inhibited M90-17 w
17	74183-89-89 4-4-4-4-4-
	EL PAC (Amphibac 100)
	(Therapeutic use); E10L
	(uses)
	(claimed compound; p
matrix	
828	74183-89-89-89 CAPLES
CH	28-Phran-6-diacetamide,
	thienyl(aryl)phenyl]au
	(CA INDEX NAME)

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119 ANSWER 80 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
      (MMP-12 inhibitor; prepn. of thiophenes as selective MMP-12
inhibitors,
      for treating pulmonary diseases)
FIN 666722-16-3 CAPLUS
CN 2-Thiophenecarboxanide, N-[2-(4-morpholinyl)ethyl]-4-[3',4',5'-
      transtheoyl[3,2'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)

```

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

119	ANSWER 81 OF 250	CAPLUS	COPYRIGHT	2007 ACS on STN	(Continued)
				US 2002-291983	A 20021112
				US 2003-657034	A3 20030905
				WO 2003-US34961	W 20031103

OTHER SOURCE(S): NARPA7 140:163704
QT

L19 ANSWER 83 OF 250 CAPULUS COPYRIGHT 2007 ACS on STM (Continued)

Abstract etc. Thus, 6.9 g (28,50)-2-[2-(4-benzoyloxyphenyl)ethyl]-3,6-diethoxy-5-lactopropyl-2-methyl-2,5-dihydroquinazoline was treated with 5.17 g (8)-1-(4-benzoyloxyphenyl)-2-tert-butylcarbamoyl anhydride to give 83.

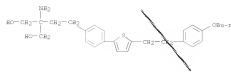
butyrylcarbamoyl amino-2-methyl-2-(4-trifluoromethylbenzoyloxyphenyl)butyrate, which (200 mg) was treated with 75 mg butyllithium acid to give 83.

(8)-1-tert-butylcarbamoyl amino-1-(4'-butylphenyl)-4-yl]-2-methylbutyrate, which (20 mg) was treated with 20 mg lithium acetohydride to give (8)-1-2-amino-4-(4'-butylphenyl)-4-yl]-2-methylbutan-1-ol.

IT (2175, 31-3)

83 SPB (Synthetic preparation) TSD (Therapeutic use); BICL (Biological study); PRP (Preparation); USES (Uses) (preparation and characterization of)

CH 3,7-Propandiol, 2-amino-2-[2-(4-[5-[2-(4-benzoyloxyphenyl)ethyl]-2-thienyl]phenyl)ethyl]- (PCL) (CA 12054 NAME)



L19 ANSWER 84 OF 250 CAPULUS COPYRIGHT 2007 ACS on STM (Continued)

ACCESSION NUMBER: 2007:97161 CAPULUS

DOCUMENT NUMBER: 1404955

TITLE: Preparation of N-arylaminoacetamides for controlling parasites

INVENTOR(S): Duray, Pierre (Godel), Thomas; Bouvier, Jacques; Duray, Corinne

PATENT ASSIGNEE(S): Novartis Ag, Zurich, Novartis Pharma GmbH

SOURCE: PCT Int. Appl., 44 pp.

COBRI: PEXAG

DOCUMENT TYPE: Patent

LANGUAGE: English

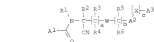
PUBLIS. NO., NUM. COMM.: 1

PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002070294	A1	20021117	WO 2002-EP534	20020511
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W2	AD, AE, AF, AG, AR, AU, BA, BB, BG, BR, CA, CH, CN, CU, CY, DE, EE, EG, FI, FR, GB, GR, GU, HK, HU, IL, IN, JP, KR, KZ, LB, LU, LV, MC, MG, MK, MN, MU, MW, MY, NZ, OM, PA, PE, PG, PH, PL, PT, RU, SA, SG, SI, SK, SL, TH, TJ, TR, TT, UA, US, VE, VN, YU, ZA, ZW			
CA 2483286	A1	20021117	CA 2002-2483286	20020511
AO 200224255	A1	20021202	AO 2002-24255	20020511
BR 020312314	A1	20020502	BR 2002-11214	20020511
EP 1509221	A1	20020502	EP 2002-71774	20020511
W	AZ, BE, BG, BR, DE, EE, EG, FI, FR, GB, GR, GU, HK, HU, IL, IN, JP, KR, KZ, LB, LU, LV, MC, MG, MK, MN, MU, MW, MY, NZ, OM, PA, PE, PG, PH, PL, PT, RU, SA, SG, SI, SK, SL, TH, TJ, TR, TT, UA, US, VE, VN, YU, ZA, ZW			
CH 1649319	A	20020502	CH 2002-90285	20020511
US 2001012127	A1	20020502	US 2001-51706	20020511
JP 2002534466	T	20021202	JP 2004-503035	20020511
W 536184	A	20041027	W 2002-536184	20020511
ZA 200407974	A	20040726	ZA 2004-7974	20041104
MX 2004PA11531	A	20050214	MX 2004-PA11531	20041119
PRIORITY APPL. INFO.	CI	2002-655	CI 2002-655	20020511
OTHER SOURCE(S):	MO	2002-EP534	W	20020511

OTHER SOURCE(S): MO 2002-EP534 W 20020511

L19 ANSWER 84 OF 250 CAPULUS COPYRIGHT 2007 ACS on STM (Continued)



AB The title compd. [7: A1, A2 = (un)substituted aryl, heterocaryl, etc.; A3 = (un)substituted pyridinyl, 6-azidaryl, 1,2,4-triazinyl, etc.; R1 = H, alkyl, haloalkyl, allyl, alkoxyethyl; R2-R6 = H, halo, alkyl, etc.; or

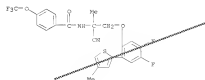
R2 and R3 are jointly alkylene; W = O, S, SO2, NR7; X = O, S, NR7; R7 = H, alkyl; A = 2-4; B = 0-4; W = O-2] which have advantageous pesticidal properties, and are particularly suitable for controlling parasites in warm-blooded animals, were prepared and formulated. E.g., a multi-step synthesis of the benzamide IV, starting from chlorobenzene and 2-bromo-4,3-difluorophenol, was given.

IT (2175:31-3)

83 ADP (Agricultural use); BSI (Biological study, unclassified); PNC (Pharmacological activity); SPB (Synthetic preparation); TSD (Therapeutic use); BICL (Biological study); PRP (Preparation); USES (Uses) (preparation of N-arylaminoacetamides for controlling parasites)

CH 2175:34-1 CAPULUS

CH Benzamide, N-[1-cyano-2-(4,3-difluoro-2-(4-methyl-2-thienyl)phenoxy)-1-methyl-1-yl]-4-(trifluoromethyl)- (PCL) (CA 12054 NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

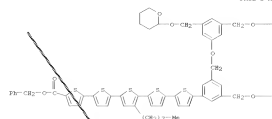
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L19 ANSWER 84 OF 250 CAPULUS COPYRIGHT 2007 ACS on STM (Continued)

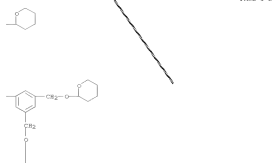
119 ANSWER 85 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 2007:844737 CAPLUS
 DOCUMENT NUMBER: 14741046
 TITLE: Controlling solubility and modulating peripheral function in dendrimer encapsulated dyes
 AUTHOR(S): Fardet, Paul; Fendler, Jean M. J.
 CORPORATE SOURCE: Department of Chemistry, University of California, Berkeley, CA, 94720-1460, USA
 SOURCE: Journal of the American Chemical Society (2007), 129(43), 13175-13181
 CORDIS: JACS07, ISSN: 0002-7867
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CORDIS SOURCE(S): CHEMABCT 149-61046
 AB The synthesis of large dendrons and dendrimers with site-isolated dyes at their core has been explored. The dyes selected for this work were coumarin 147 and pentafluorophenyl, as energy transfer processes prevail when the two dyes are intimately mixed but each should behave independently of the other if site-isolation is achieved. Because the two dyes have very different functional characteristics, a protocol involving orthogonal protecting groups and allowing the use of a single family of electroactive dendrons for their encapsulation had to be developed. The synthetic protocol must balance the need to incorporate electroactive groups at the periphery of the dendrons with the requirement for high solubility and a size sufficient to fully encapsulate the central dye. Because of their poor solubility and tendency to crystallize, dendrons with uniform triarylamine substitution proved unsatisfactory leading to the development of new ways. Dendrons with alternating branched alkyl groups and triarylamine moieties at their periphery. These dendrons, which show excellent solubility and no tendency to crystallize, were assembled into large dendrimers using a modular protocol with the light emitting dye at their core. It is expected that the large size of the dendritic shell will provide effective site-isolation for the encapsulated central dye enabling them to exhibit their luminescence emission properties with minimal energy transfer between neighboring core fluorophores when processed in bulk thin films.
 IT 636984-44-19 636984-44-19, reaction products with benzyl-terminated dihydroxybenzylamide dendrimers 636984-44-4P
 Re: ICI (Reagent); STM (Synthetic preparation); PREP (Preparation); RACT (Reagent or reagent)
 dendrimer (controlling solubility and modulating peripheral function in encapsulated light emitting dyes)
 IN 636984-44-5 CAPLUS
 CH [2,2',5',2''',5'',2''',5''',2''''-Quinquephenyl]-5-carboxylic acid, 5''''-[3,5-bis[[[3,5-bis[[[tetrahydro-2H-pyran-2-yl]oxy]methyl]phenyl]methyl]phenyl]-4''-octyl]-, phenylmethyl ester (PCI) (CA INDEX NAME)

119 ANSWER 85 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 1-A



PAGE 1-B



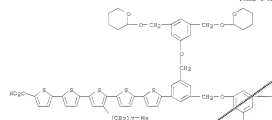
119 ANSWER 85 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 2-B



IN 636984-44-6 CAPLUS
 CH [2,2',5',2''',5'',2''',5''',2''''-Quinquephenyl]-5-carboxylic acid, 5''''-[3,5-bis[[[3,5-bis[[[tetrahydro-2H-pyran-2-yl]oxy]methyl]phenyl]methyl]phenyl]-4''-octyl]-, phenylmethyl ester (PCI) (CA INDEX NAME)

PAGE 1-A



119 ANSWER 85 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 1-B

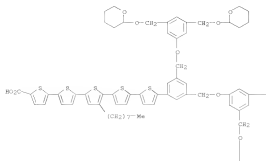


PAGE 2-A

IN 636984-44-6 CAPLUS
 CH [2,2',5',2''',5'',2''',5''',2''''-Quinquephenyl]-5-carboxylic acid, 5''''-[3,5-bis[[[3,5-bis[[[tetrahydro-2H-pyran-2-yl]oxy]methyl]phenyl]methyl]phenyl]-4''-octyl]-, phenylmethyl ester (PCI) (CA INDEX NAME)

112 ANSWER 85 OF 250 CAPLES COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-3



PAGE 1-2

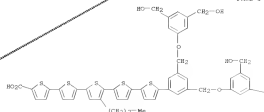


L19 ANSWER 85 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

[illegible]

17	627357-29-G	reaction products with naphthalenylphenylamine-terminated dihydrobenzyl bromide dendramers EL: 19% (Synthetic preparation) / 7 PEF (Preparation) (controlling solubility and modulating peripheral function in dendritic encapsulated light emitting dyes)
JN	627357-29-CO CAPLES	
CN	[2,2',4'',4''',5'',5'''-Quinoxalinephene]-5-carboxylic acid [1,2,3,6-tetrahydro[1H,5H]indole[2,3-b]pyridine phenylethynylhydropyrene]	
	(SC1) (CA INDEX NAME)	

PAGE 2-8



E19 ANSWER 85 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 3-8

 $\sim \text{CH}_2=\text{CH}$

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR
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1.19 ANSWER 86 OF 250 CAPLOS COPYRIGHT 2007 ACS on 876

ACCESSION NUMBER: 2003:794463 CAPLAN
DOCUMENT NUMBER: 139:307607

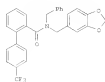
TITLE: Preparation of substituted biaryl amides as C5a
 receptor modulators
 INVENTOR(S): Gao, Yang; Hutchison, Alan; Peterson, John; Pringle,
 Wallace; Thirkaut, Andrew; Yoon, Taeyoung; Zhao, He
 PATENT ASSIGNEE(S): Neurogen Corporation, USA
 SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXKD2

DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1

PATIENT NO.		KIND	DATE	APPLICATION NO.	DATE
W	MR, AD, AG, CH, CO, CR, CU, CY, DE, DI, DR, DU, EG, EN, ES, EU, EX, FE, FR, FY, GB, GR, GU, HA, HE, HI, HO, HU, HY, ID, IG, IL, IN, IO, IP, IS, IT, IV, LA, LB, LC, LE, LI, LO, LU, LV, LY, MA, ME, MI, MN, MO, MU, MY, NG, NY, NC, NE, NF, NH, NI, NJ, NK, NL, NO, NP, NS, NT, NU, NV, NY, NZ, OB, OD, OE, OF, OH, OI, OL, OM, ON, OP, OS, OT, OU, OV, OW, OX, PA, PE, PF, PG, PH, PI, PJ, PK, PL, PO, PP, PS, PT, PU, PY, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QS, QT, QU, QV, QW, QX, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RS, RT, RU, RV, RW, RX, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SR, SS, ST, SU, SV, SW, SY, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TR, TS, TT, TU, TV, TW, TX, TY, UG, UH, UI, UJ, UK, UL, UM, UN, UP, UQ, UR, US, UT, UV, UW, UX, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VW, VX, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WX, XJ, XK, XL, XM, XN, XO, XP, XS, XT, XU, XV, XW, XY, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY	AL	20030009	MO	20030224
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OTHER SOURCE(S): MARPAT 139:307601
(U)

L19 ANSWER 86 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



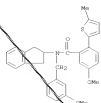
1

AB The title compd. Ar1 = (m)substituted Ph, 38-fluorenyl, naphthyl, heterocyclyl; R1 = (m)substituted cycloalkyl, (cycloalkyl)alkyl, (heterocyclyl)alkyl; R2 = alkyl, cycloalkyl, aryl, etc. which are ligands that may be used to modulate C5a receptor activity in vivo or in vitro, and are particularly useful in the treatment of conditions associated with pathol. C5a receptor activation in humans, dematitotic companion animals and livestock animals, were prepared and formulated. Thus

treating 2-undecanoic acid with 1,1'-methylenebisdioxolane followed by addition of N-(3,4-methylenedioxyphenyl)-N-benzylamine, and coupling of the resulting intermediate with 8-trifluoromethylphenylboronic acid in the presence of Pd(PPh3)4 afforded 1. Preferred compds. exhibit IC50 values of less than 1 μM in the assay for C5a receptor mediated chemotaxis. Pharmaceutical regim. and methods for using them to treat such mentioned above disorders

are provided, as are methods for using such ligands for receptor localization studies.
 IT 610744-39-39 610744-34-32
 B1 PAC (Pharmacological activity); SPN (Synthetic preparation); TEO (Therapeutic use); BUL (Biological study); PREP (Preparation); USES (Uses);
 PH 610744-39-3 CAPLUS
 CH Benzamide, N-(2,1-dihydro-1H-inden-2-yl)-5-methoxy-N-[(3-methoxyphenyl)methyl]-2-[3-methoxy-2-phenyl]- (PCT) (CA INDEX NAME)

L19 ANSWER 86 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



PH 610744-34-3 CAPLUS
 CH Benzamide, N-[(4-difluoromethylphenyl)methyl]-2-[3-methoxy-2-phenyl]-4-(phenylmethyl)- (PCT) (CA INDEX NAME)



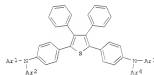
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. SEE CITATIONS AVAILABLE IN THE IE FORMAT

L19 ANSWER 87 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

ACCESSION NUMBER: 2003170705 CAPLUS
 DOCUMENT NUMBER: 139267732
 TITLE: Organic electroluminescent devices showing stable and bright emission and arylaminophenylthiophene derivatives thereof
 INVENTOR(S): Shumura, Takahiko; Tanabe, Yoshinori; Ishida, Tetsuro; Totani, Yoshiyuki; Nakatsuka, Masakazu
 PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
 DOCUMENT TYPE: OTHER JPOKAP
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: Japanese
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003267973	A	20030925	JP 2002-7426	20020319
PRIORITY APPL. INFO.			JP 2002-7426	20020319

OTHER SOURCE(S): HANPAT 139:267732
 GI



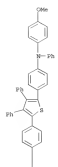
AB Arylaminophenylthiophene deriva. 1 Ar1-Ar4 = aryl where R1 of them is anthryl) and organic electroluminescent devices having 1 in hole-injecting or emission layers and exhibiting the mentioned advantages are both claimed.

IT 601132-54-59 601132-57-69
 R1, R2, R3 (Relevant compound use); IMP (Industrial manufacture); PREP (Preparation); USES (Uses)
 PH 601132-54-5 CAPLUS
 CH 9-Arylaminophenylthiophene deriva. for organic electroluminescent devices showing stable and bright emission)

PH 601132-54-5 CAPLUS
 CH 9-Arylaminophenylthiophene deriva. for organic electroluminescent devices showing stable and bright emission)

L19 ANSWER 87 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

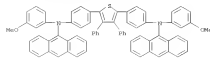
PAGE 1-A



PAGE 2-A

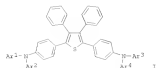


PH 601132-57-6 CAPLUS
 CH 9-Arylaminophenylthiophene deriva. for organic electroluminescent devices showing stable and bright emission)



119 ANSWER 89 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 2007167590 CAPLUS
 DOCUMENT NUMBER: 139121357
 TITLE: Organic electroluminescent component with thiophene derivative
 INVENTOR(S): Nakatsuka, Masakatsu; Shimamura, Takahiko; Ishida, Tetsuya; Tanabe, Yoshimatsu; Totani, Yoshiyuki
 PATENT ASSIGNEE(S): MITSUBISHI CHEMICALS, INC., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

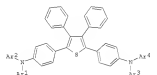
PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2003243376 A 20030829 JP 2002-18422 20020215
 JP 2780423 B2 20050621
 PRIORITY APPL. INFO.: JP 2002-18422 20020215
 OTHER SOURCE(S): NAKPAT 139121357
 GI



AB The invention refers to an organic electroluminescent component comprising a thiophene derivative 1 [Ar1-4 = (un)substituted aryl; and Ar1 and Ar2, Ar3 and Ar4 may join to form M-containing rings, and at least one of Ar1-4 must be a(n) (un)substituted fluorenyl].
 IT 56894-19-3 56894-19-4
 RI 139121357 CAPLUS
 RI 139121357 CAPLUS
 CH 35-Fluorene-2-amine, N,N'-[1,3,4-diphenyl-2,5-thiophenediyl]di-4,1-phenylene]bis[9-[3-methoxyphenyl]-9,9-dimethyl- (PC1) (CA INDEX NAME)

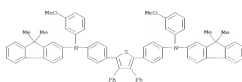
119 ANSWER 89 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 2007173018 CAPLUS
 DOCUMENT NUMBER: 139121422
 TITLE: Preparation of 2,5-bis[4-(aminophenyl)-3,4-diphenylthiofuran derivatives as positive hole injection transport materials for organic electroluminescent devices
 INVENTOR(S): Nakatsuka, Masakatsu; Shimamura, Takahiko; Ishida, Tetsuya; Tanabe, Yoshimatsu; Totani, Yoshiyuki
 PATENT ASSIGNEE(S): MITSUBISHI CHEMICALS INC., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 200323553 A 20030827 JP 2002-31613 20020209
 PRIORITY APPL. INFO.: JP 2002-31613 20020209
 OTHER SOURCE(S): NAKPAT 139121422
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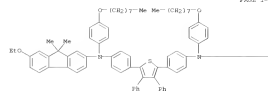
AB The title compds. [I, Ar1, Ar2 = (un)substituted biphenyl; Ar1, Ar2 = (un)substituted Ph] are prepared. Thus, 2,5-bis[4-(iodophenyl)-3,4-diphenylthiophene 4], N,N'-bis[4-(phenylphenyl)amino] 32, copper powder 10, and anhydrous K2CO3 2.0 g were stirred in 50 g o-dichlorobenzene at 190° for 8 h, cooled to 100°, filtered, and treated with 600 g methanol, followed by filtration of the precipitated crystals, drying, and alumina chromatog. to give 32 g 2-[4-(N,N'-bis[4-(phenylphenyl)amino]phenyl)-3-(4-iodophenyl)-3,4-diphenylthiophene (II)]. 11 0.3, N,N'-diphenylamine 2.0, and anhydrous K2CO3 2.0 g were stirred in 50 g o-dichlorobenzene at 190° for 8 h, processed similarly as described above to give, after purification by sublimation at 270° and 10-6 torr, 6.2 g 2-[4-(N,N'-bis[4-(phenylphenyl)amino]phenyl)-5-[4-(N,N'-diphenylamino)phenyl]-3,4-diphenylthiophene (III)] as light yellow solid [glass transition temperature 121°]. An electroluminescent device with a hole injection layer of 111 vapor-deposited on a TFO electrode emitted green light at 50°, 4-5 V, 10 mA/cm², and lifetime of 460 cd/m² with a half life of 740 h.

119 ANSWER 89 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



RI 56894-19-4 CAPLUS
 CH 38-Fluorene-2-amine, N,N'-[1,3,4-diphenyl-2,5-thiophenediyl]di-4,1-phenylene]bis[1-ethoxy-3,5-dimethyl-9-[4-(methoxy)phenyl]- (PC2) (CA INDEX NAME)

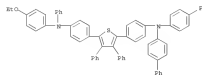
PAGE 1-A



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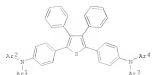


119 ANSWER 89 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 IT 404389-98-45
 RI 139121357 CAPLUS
 RI 139121357 CAPLUS
 CH 35-Fluorene-2-amine, N,N'-[1,3,4-diphenyl-2,5-thiophenediyl]di-4,1-phenylene]bis[9-[3-methoxyphenyl]-9,9-dimethyl- (PC1) (CA INDEX NAME)



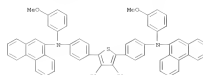
119 ANSWER 91 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 ACCESSION NUMBER: 20021672094 CAPLUS
 DOCUMENT NUMBER: 139121429
 TITLE: Preparation of 2,5-bis(4-aminophenyl)-3,4-diphenylthiophene derivatives as positive hole injection transport materials for organic electroluminescent devices
 INVENTOR(S): Nakatsuka, Masahito; Shimamura, Takeshi; Ishida, Tetsuro; Tanabe, Naohitsugu; Totani, Yoshiyuki; Mitsui Chemicals Inc., Japan
 PATENT ASSIGNER(S): Jpn. Kokai Tokkyo Koho, 19 pp.
 SOURCE: CORDIS
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: 1

PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2002238540 A 2002-08-27 JP 2002-36873 20020214
 PRIORITY APPL. INFO.: JP 2002-36873 20020214
 OTHER SOURCE(S): NAKPAT 139:21429
 GI



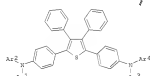
AS The title compds. [1: Ar1-Ar4 = (un)substituted aryl; or Ar1 and Ar2 or Ar3 and Ar4 together with the N atom to which they are bonded form a 5-membered heterocyclic ring; provided that at least one of Ar1-Ar4 is (un)substituted phenanthryl] are prepared Thus, 2,5-bis(4-iodophenyl)-3,4-diphenylthiophene 10, N-(3-phenanthryl)-N-phenylamine 27, copper powder 10, and anhydrous K2CO3 20 g were stirred in 200 g o-chlorobenzene at 150° for 8 h, cooled to 100°, filtered, and treated with 400 g methanol followed by filtration of the precipitated crystals, drying, and alumina chromatography to give 30 g 2-[4-[(N-(3-phenanthryl)-N-phenylamino)phenyl]-5-(4-iodophenyl)-3,4-diphenylthiophene (II). 11 7.8, N-(diphenylamino)-2,0, and anhydrous K2CO3 5.0 g were stirred in 30 g o-chlorobenzene at 150° for 8 h, processed similarly as described above to give, after purification by sublimation at 300° and 10-6 torr, 5.8 g 2-[4-[(N-(3-phenanthryl)-N-phenylamino)phenyl]-5-(4-(N,N-

119 ANSWER 91 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 diphenylamino)phenyl]-3,4-diphenylthiophene (III) as yellow solid (glass transition temp. 128°). An electroluminescent device with a hole injection layer of III vapor-deposited on a ITO electrode emitted green light at 50°, 6.5 V, 10 cd/m², and luminance of 470 cd/m² with a half life of 769 h.
 IT 587848-11-IP
 RI: DEY (Device component use); STM (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 [Preparation of (p-phenanthryl)amino]phenyl]amino]phenyl]diphenylthioether derivative as pos. hole injection transport materials for organic electroluminescent devices)
 MN 587848-11-1 CAPLUS
 CN 9-Phenanthreneamine, N,N'-[2,5-bis(4-diphenyl-2,5-bis(phenanthryl)di-1,1-phenylene)bis[N-(3-methoxyphenyl)]-3,4] (CA INDEX NAME)



119 ANSWER 91 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 20021672094 CAPLUS
 DOCUMENT NUMBER: 139121429
 TITLE: Preparation of 2,5-bis(4-aminophenyl)-3,4-diphenylthiophene derivatives as positive hole injection transport materials for organic electroluminescent devices
 INVENTOR(S): Nakatsuka, Masahito; Shimamura, Takeshi; Ishida, Tetsuro; Tanabe, Naohitsugu; Totani, Yoshiyuki; Mitsui Chemicals Inc., Japan
 PATENT ASSIGNER(S): Jpn. Kokai Tokkyo Koho, 19 pp.
 SOURCE: CORDIS
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: 1

PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2002238540 A 2002-08-27 JP 2002-36873 20020214
 PRIORITY APPL. INFO.: JP 2002-36873 20020214
 OTHER SOURCE(S): NAKPAT 139:21429
 GI

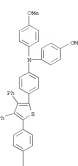


AS The title compds. [1: Ar1, Ar2 = (un)substituted naphthyl; Ar3, Ar4 = (un)substituted phenyl] are prepared Thus, 2,5-bis(4-iodophenyl)-3,4-diphenylthiophene 10, N,N'-bis(2-naphthyl)amine 27, copper powder 10, and anhydrous K2CO3 20 g were stirred in 200 g o-chlorobenzene at 150° for 8 h, cooled to 100°, filtered, and treated with 400 g methanol followed by filtration of the precipitated crystals, and alumina chromatography to give 30 g 2-[4-[(N,N'-bis(2-naphthyl)amino)phenyl]-5-(4-iodophenyl)-3,4-diphenylthiophene (II). 22 6.8, N,N'-diphenylamine 2.0, and anhydrous K2CO3 5.0 g were stirred in 30 g o-chlorobenzene at 150° for 8 h, processed similarly as described above to give, after purification by sublimation at 370° and 10-6 torr, 6.1 g 2-[4-[(N,N'-di(2-naphthyl)amino)phenyl]-5-(4-bis(4-methylphenyl)amino)phenyl]-3,4-diphenylthiophene (III) as light yellow solid (glass transition temperature 134°). An electroluminescent device with a hole injection layer of III vapor-deposited on a ITO electrode emitted green light at 50°, 6.5 V, 10 cd/m², and luminance of 490 cd/m² with a half life of 769 h.

IT 404353-96-4P
 RI: DEY (Device component use); STM (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

119 ANSWER 91 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 [Prep. of bis(p-aminophenyl)diphenylthioether derivs. as pos. hole injection transport materials for org. electroluminescent devices)
 MN 404353-96-4 CAPLUS
 CN 1-Naphthaleneamine, N,N'-[4-[5-[4-bis(4-methoxyphenyl)amino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]-N,N'-[2-naphthalenyl]-3,4] (CA INDEX NAME)

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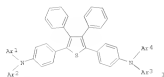
PAGE 2-A



119 ANSWER 92 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 2007151513 CAPLUS
 DOCUMENT NUMBER: 139157140
 TITLE: Novel anise compounds for hole-injecting/transporting materials of organic electroluminescent devices
 INVENTOR(S): Matsuda, Masahiko; Shimamura, Tadahiko; Ishida, Tetsuo; Tanabe, Yoshimasa; Tanaka, Yoshiyuki
 PATENT ASSIGNEE(S): MITSUBISHI CHEMICAL INC., JAPAN
 SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
 COORDINATING AGENCY: JPO/USPTO
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY AC. NUM. COUNTRY: 1
 PATENT INFORMATION: 1

PATENT NO. _____ KIND DATE APPLICATION NO. _____ DATE
 JP 2003211993 A 20030805 JP 2002-18700 20020119
 PRIORITY APPL. INFO.: JP 2002-18700 20020119

OTHER SOURCE(S): MARPAT 139:157140
 GE



AB The compds. are 1 (Ar1-Ar2 = biphenyl; Ar4 = Ph, naphthyl). Electroluminescent devices containing the compds. show improved stability and durability.
 IT 602478-11-2
 RI DEV (Device component use); TM (Technical or engineered material use); USES (Uses)
 (novel anise compds. for hole-injecting/transporting materials of organic LED)
 IN 402478-11-2 CAPLUS
 CH [1,1'-Biphenyl]-4-amine, N-[1,1'-biphenyl]-4-yl-N-[4-[5-[4-[[1,1'-biphenyl]-4-yl]-4-ethoxyphenyl]amino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (SC) (CA INDEX NAME)

119 ANSWER 93 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 2007151193 CAPLUS
 DOCUMENT NUMBER: 139148510
 TITLE: Preparation of alkylpyrrolidines and -asitidines as Rg receptor agonists
 INVENTOR(S): Anya
 Sandoz
 PATENT ASSIGNEE(S): Sandoz
 SOURCE: PCT Int. Appl., 118 pp.
 COORDINATING AGENCY: PTO/USPTO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. NUM. COUNTRY: 1
 PATENT INFORMATION: 1

PATENT NO. _____ KIND DATE APPLICATION NO. _____ DATE
 WO 2003062252 AL 20030731 WO 2003-081196 20030115

W: AU, AG, AM, AR, AT, AU, BA, BE, BG, BR, BY, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, MA, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, PA, PE, PG, PK, PR, RO, RU, SD, SE, SG, SI, TJ, TN, TR, TT, TZ, UA, US, UZ, VG, VN, YU, ZA, ZM, ZW

IN: GB, GR, HU, IL, IN, JP, KR, SD, SE, SI, TJ, TN, TR, TT, TZ, UA, US, UZ, VG, VN, YU, ZA, ZM, ZW

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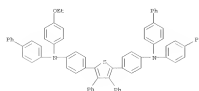
CA 2471115 AL 20030731 CH 2003-081196 20030115
 EP 2003-081196 20030115
 JP 200515239 T 20050106 JP 20030115
 US 2005033055 AL 20050210 US 2004-500895 20040707
 PRIORITY APPL. INFO.: US 2002-300009 P 20020115
 WO 2003-081196 M 20030115

OTHER SOURCE(S): MARPAT 139:149500
 GE

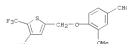


AB Title compds. 1 (Ar = (un)substituted Ph, naphthyl; A = OCH3, P(O)(OH)2, P(O)(OH), SO2NH2, N-(naphthyl)-5-yl; R1, R2 = H, halogen, OR, CO2H, (un)substituted alkyl; R3 = H, (un)substituted alkyl; n, m = 4, 3) were

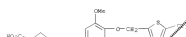
119 ANSWER 92 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



119 ANSWER 93 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 prepd. for use as Rg receptor agonists, useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection (no data). Thus, 3-pyrrolidino was converted to di-8-3-hydroxypropylidene-3-ylthioacetate and treated with 4-methylbenzaldehyde, followed by ester hydrolysis to give 1-(4-methylphenyl)-3-hydroxypropylidene-3-ylthioacetate.
 IT 570424-11-2
 RI: ACT (Reactant); RACT (Reactant or reagent)
 (Preparation of alkylpyrrolidines and -asitidines as Rg receptor agonists)
 IN 570424-11-2 CAPLUS
 CH Benzaldehyde, 4-methoxy-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]- (SC) (CA INDEX NAME)



IT 570423-77-TP 570423-78-EP
 RI: SPO (Synthetic preparation); TMO (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (Preparation of alkylpyrrolidines and -asitidines as Rg receptor agonists)
 IN 570423-77-7 CAPLUS
 CH 3-Pyrrolidinoacetic acid, 1-[[5-methoxy-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (SC) (CA INDEX NAME)



IN 570423-78-8 CAPLUS
 CH 3-Acetylaminocarbonyl acid, 1-[[5-methoxy-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (SC) (CA INDEX NAME)



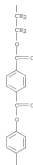
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L19 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 ACCESSION NUMBER: 2007156703 CAPLUS
 DOCUMENT NUMBER: 179114378
 TITLE: Novel glassy nematic liquid crystals for non-destructive rewritable optical memory and photonic switching
 AUTHOR(S): Chen, Daw E.; Chen, E. M.; Philipp, Gerg; Yanbo; Jacobs, Stephen D.; Marshall, Kenneth L.; Rianton, Thomas R.
 CORPORATE SOURCE: Department of Chemical Engineering Center for Optoelectronics and Imaging, University of Rochester, Rochester, NY 14623-1212, USA
 SOURCE: 101117, 1061-1645
 PUBLISHER: CODEN: ADVENW ISSN: 0930-3648
 DOCUMENT TYPE: Wiley-VCH Verlag GmbH & Co. KGaA
 LANGUAGE: English
 AB: Dithienylethene-containing glassy nematic liquid crystals were synthesized, in which the dithienylethene core's electronic transition moment is uniaxially aligned. Large changes in refractive index and optical birefringence could be induced in the solid state by photochemical means. Applications as non-destructive rewritable optical memory and high-speed photonic switches are envisaged.
 IT 611204-44-19 611204-45-2P 611204-46-3P
 EL: CFS [Chemical process]; FEP [Physical, engineering or chemical process]; FPF [Properties]; PTF [Physical process]; SPB [Synthetic preparation]; FEP [Preparation]; FPO [Process]
 CR: design and properties of morphol. stable glassy nematic liquid crystals containing dithienylethene core for rewritable optical memory and photonic switching
 HN 611204-44-3 CAPLUS
 CH 1,4-benzenediacetic acid, (2,3,4,5,5-hexafluoro-3-cyclopentene-1,2-allyl)bis[1,3,5-trimethyl-4,2-thienophenyl]-4,1-phenylene
 SU1 [2-[[4-[[[4'-methoxy]1,1'-biphenyl]-4-yl]oxy]carbonyl]phenoxy]ethyl] ester (9CI) [CA INDEX NAME]

L19 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
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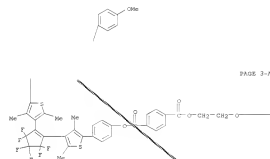
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L19 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
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L19 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 CH 1,4-benzenediacetic acid, (2,3,4,5,5-hexafluoro-3-cyclopentene-1,2-allyl)bis[1,3,5-trimethyl-4,2-thienophenyl]-4,1-phenylene
 SU1 [2-[[4-[[[4'-cyano]1,1'-biphenyl]-4-yl]oxy]carbonyl]phenoxy]propyl] ester (9CI) [CA INDEX NAME]

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119 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

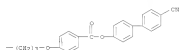
PAGE 2-A



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119 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

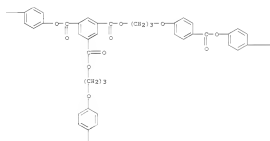
PAGE 1-B



PAGE 2-A



PAGE 2-B



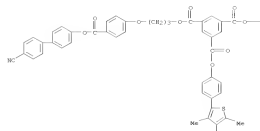
119 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 3-A



IN 63206-46-3 CAPLUS
 CN 3,5-bis(methylcarbamoyl)ic acid, (7,7,4,4,5,5-hexafluoro-1-cyclopentene-2-diyl)bis[(1,5-dimethyl-4,2-thiophenediyl)-4,1-phenylene]
 tetrakis[7-[4-[(4'-cyano[1,1'-biphenyl]-4-yl)oxyl]carbonyl]phenylpropyl]
 ester (9C1) (CA INDEX NAME)

PAGE 1-A

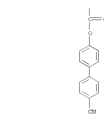


119 ANSWER 95 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-C



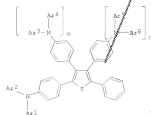
PAGE 3-B



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE
 FORMAT

119 ANSWER 96 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007148876 CAPLUS
 DOCUMENT NUMBER: 13946291
 TITLE: Organic electroluminescence devices with high
 luminescence efficiency
 INVENTOR(S): Nakatsuma, Masahiko; Shunmura, Takahiko; Ishida,
 Tetsuo; Tanabe, Yoshiyuki; Totani, Yoshiyuki;
 Mitsui Chemicals Inc., Japan
 PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 21 pp.
 SOURCE: COMBIPRODUMP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNTRY: 1
 PATENT INFORMATION:

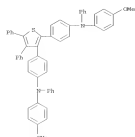
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003178881	A	20030627	JP 2001-375493	20011220
PUBLICITY APPL. INFO.			JP 2001-375493	20011220
OTHER SOURCE(S):				
02		MAJULAT 19960191		



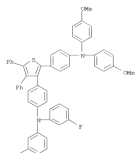
AB The device has n1 layers containing arylaminothiophenes I (Ar1-6 = aryl; n, m = 0, 1; m = n; Ar1 and Ar2, Ar3 and Ar4, Ar5 and Ar6 may be forming a ring with N) between a pair of electrodes. The layer containing I may be a hole transport layer or a luminescence layer.

IT 547755-30-6 547755-31-7 547755-41-9
 547755-53-3 547755-54-4
 XI. DEV (Device component use); USES (Uses)
 Hole transport layer containing arylaminothiophenes for
 organic electroluminescence devices with high luminescence efficiency)
 XB 547755-30-6 CAPLUS
 CB Benzenamine, 4,4'-(4,5-diphenyl-2,3-thiophenediyl)bis[N-(4-methoxyphenyl)]-

119 ANSWER 96 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 N-phenyl- (PC1) (CA INDEX NAME)

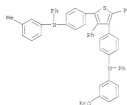


XB 547755-31-7 CAPLUS
 CB Benzenamine, 4-[3-[4-bis(3-fluorophenyl)aminophenyl]-4,5-diphenyl-2-thienyl]-N,N-bis(4-methoxyphenyl)- (PC1) (CA INDEX NAME)

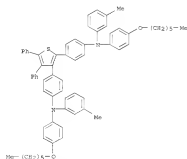


XB 547755-41-9 CAPLUS

119 ANSWER 96 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 N-(3-ethoxyphenyl)-4-[5-[4-[3-methylphenyl]phenylamino]phenyl]-2,4-diphenyl-3-thienyl]-N-phenyl- (PC1) (CA INDEX NAME)



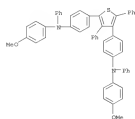
XB 547755-53-3 CAPLUS
 CB Benzenamine, 4,4'-(4,5-diphenyl-2,3-thiophenediyl)bis[N-(4-ethoxyphenyl)-N-(3-methylphenyl)]- (PC1) (CA INDEX NAME)



Me- (CH2)5-O

XB 547755-54-4 CAPLUS
 CB Benzenamine, 4,4'-(3,5-diphenyl-2,4-thiophenediyl)bis[N-(4-methoxyphenyl)-N-phenyl]- (PC1) (CA INDEX NAME)

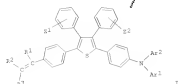
119 ANSWER 96 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



119 ANSWER 97 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 2007:412145 CAPLUS
 DOCUMENT NUMBER: 139146914
 TITLE: Organic field-type electroluminescent device and thiophene compounds for it
 INVENTOR(S): Ishida, Tetsuo; Shimamura, Takahiko; Tanabe, Yoshitsugu; Totani, Yoshiyuki; Nakatsuka, Masakatsu
 PATENT ASSIGNEE(S): Nitsei Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 55 pp.
 CODE/N: JF004F
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNTRY: 1 ~~unavailable~~
 PATENT INFORMATION:

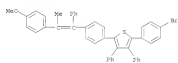
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 550157977	A	20000530	JP 2001-353764	20011119
JP 5502894	B2	20040606	JP 2001-353764	20011119

PRIORITY APPL. INFO.:
 OTHER SOURCE(S): MARKAP 139146914
 GI

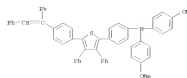


AB The electroluminescent (EL) device contains R1 thiophene compound represented by 2 (R1-1 = R, linear, branched, or cyclic alkyl, (substituted) aryl, (substituted) alkyl; R1-2 = (substituted) aryl, (substituted) alkyl, (substituted) amino) as a hole-transporting material, a luminescent material, and/or an electron-injecting/transporting material. The thiophene compound is also claimed. The EL device has high luminescent efficiency and emits light with high brightness.
 IT 531509-21-4P 531509-21-5P
 R1, R2 (Device component use); IMP (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (organic field-type electroluminescent device containing thiophene compound for

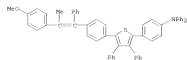
119 ANSWER 97 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



119 ANSWER 97 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 high luminescent efficiency and brightness)
 R1 531509-21-4 CAPLUS
 CN Benzeneamine,
 4-[5-[4-[1,2-diphenylethenyl]phenyl]-3,4-diphenyl-2-thienyl]-
 N,N-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



R1 531509-22-5 CAPLUS
 CN Benzeneamine,
 4-[5-[4-[1,2-(4-methoxyphenyl)-1-phenyl-1-propenyl]phenyl]-3,4-diphenyl-2-thienyl]-N,N-diphenyl- (9CI) (CA INDEX NAME)

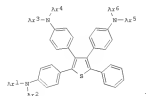


IT 531509-47-4
 R1 R2 (Resistant); R2CT (Resistant or reagent)
 (organic field-type electroluminescent device containing thiophene compound for high luminescent efficiency and brightness)
 R1 531509-47-4 CAPLUS
 CN Thiophene, 2-[4-(4-methoxyphenyl)-5-[4-[2-(4-methoxyphenyl)-1-phenyl-1-propenyl]phenyl]-3,4-diphenyl- (9CI) (CA INDEX NAME)

119 ANSWER 98 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 2007:780171 CAPLUS
 DOCUMENT NUMBER: 139146915
 TITLE: Organic electroluminescent device with aryl amine-substituted thiophene
 INVENTOR(S): Nakatsuka, Masakatsu; Shimamura, Takahiko; Ishida, Tetsuo; Tanabe, Yoshitsugu; Totani, Yoshiyuki
 PATENT ASSIGNEE(S): Nitsei Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 CODE/N: JF004F
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNTRY: 1 ~~unavailable~~
 PATENT INFORMATION:

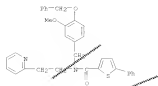
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 200151778	A	20000523	JP 2001-343640	20011108

PRIORITY APPL. INFO.:
 OTHER SOURCE(S): MARKAP 139146915
 GI



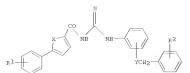
AB The invention refers to an organic electroluminescent device comprising I (R1-6 = (un)substituted aryl, where adjacent groups may joining together and form heterocyclic rings including the shared R atom).
 IT 530129-05-6 530129-06-7 530129-07-8
 530129-25-1
 R1, R2 (Device component use); USES (Uses) (organic electroluminescent device with aryl amine-substituted thiophene)
 R1 530129-05-6 CAPLUS
 CN Benzeneamine, 4,4',4''-(5-phenyl-2,3,4-thienetriyl)tris [N-[3-(methoxyphenyl)-N-phenyl- (9CI) (CA INDEX NAME)

119 ANSWER 99 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 [Biological study]; USES (Uses)
 [para of pyridylmethylamines and amides as anticancer drugs]
 IN 521115-57-3 CAPLUS
 CH 2-Thiophenecarboxamide, N-[[3-methoxy-4-(phenylmethoxy)phenyl]methyl]-5-phenyl-6-[2-(5-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)



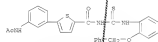
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

119 ANSWER 100 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 2007:31129 CAPLUS
 DOCUMENT NUMBER: 139145301
 TITLE:
 Synthesis of the aryl thioarea derivatives as novel small molecule inhibitors of cysteine protease of Trypanosoma cruzi
 AUTHOR(S): Guo, Chun Yang, Ling Du, Xiaohui, Molnar, James R.
 CORPORATE SOURCE: Cohen, Fred K.
 School of Pharmaceutical Engineering, Shengyang Pharmaceutical University, Shenyang, 11016, Peop. Rep. China
 SOURCE: Shengyang Science Review Suzhi (2002), 12(4), 209-204
 CUBED: SYTEEF; ISBN: 1605-0160
 PUBLISHER: Shengyang Science Review Suzhi Nanjing
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139145301
 CI

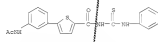


AB New aryl thioarea deriva. were designed and synthesized to find novel small mol. inhibitors of cysteine protease of Trypanosoma cruzi. A series of aryl thioarea deriva. was prepared from corresponding aryl isothiocyanates and substituted amines. The chemical structures were characterized by NMR (E1) and IR-NMR spectroscopy. A total of 20 aryl thioarea deriva. were synthesized. The results of the bioassay in vitro against cruzin showed that all the synthetic compds. exhibited certain activity, among which two compds. [1 (R1 = 3-acetamido, R2 = o-fluoro, X = N, Y = 2-O) and 1 (R1 = 4-chloro, R2 = o-fluoro, X = O, Y = 2-O)] were more active than the control inhibitor C-175. The class of inhibitors might be potential drugs for antitrypanosomal chemotherapy.
 IT 618889-88-61 618889-89-72 618889-90-09 618889-91-1P 618889-92-2P 618889-93-3P 618889-94-4 618889-95-1P 618889-96-4P
 RI: PAC (Pharmacological activity); FRB (Properties); SPR (Synthetic preparation); THD (Therapeutic use); ROL (Biological study); FEP (Preparation); USES (Uses)
 (synthesis of aryl thioarea deriva. as novel small mol. inhibitors of cysteine protease of Trypanosoma cruzi)

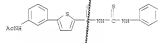
119 ANSWER 100 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IN 618889-88-6 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[12-(phenylmethoxy)phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



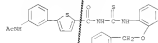
IN 618889-89-7 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[14-(phenylmethoxy)phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



IN 618889-90-0 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[13-(phenylmethoxy)phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



IN 618889-91-1 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[12-(2-fluorophenyl)ethoxy]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

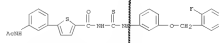


IN 618889-92-2 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[14-(12-fluorophenyl)ethoxy]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

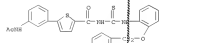


119 ANSWER 100 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IN 618889-93-3 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[13-(12-fluorophenyl)ethoxy]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



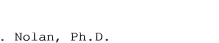
IN 618889-94-4 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[12-(12-methylphenyl)ethoxy]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



IN 618889-95-5 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[14-(12-methylphenyl)ethoxy]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



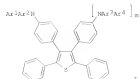
IN 618889-96-4 CAPLUS
 CH 2-Thiophenecarboxamide, 5-[3-(acetylaminophenyl)-6-[[13-(12-methylphenyl)ethoxy]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



119 ANSWER 102 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER: 20071242287 CAPLUS
DOCUMENT NUMBER: 1391278160
TITLE: Organic electroluminescent device showing high emission efficiency and long service life
INVENTOR(S): Nakatsuka, Masahito; Shunmura, Takahiko; Ishida, Tetsuya; Tanabe, Yoshitsugu; Totani, Yoshiyuki; Mitsui Chemicals Inc.; Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACQ. NUM. COUNTRY: Japan
PATENT INFORMATION:)

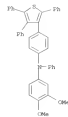
PATENT NO. _____ KIND DATE _____ APPLICATION NO. _____ DATE _____
JP 2002021197 A 20020228 JP 2001-283808 20010919
PRIORITY APPL. INFO.: JP 2001-283808 20010919
OTHER SOURCE(S): JAPANESE 1391278160
CZ



AB The device contains a arylamino-substituted tetraphenylthiophene derivative 1
[Ar1-4 = (substituted) aryl; Ar1 and Ar2 may be connected to form a heterocycle; Ar3 and Ar4 may be connected to form a heterocycle; n = 0, 1]
as a hole-transport material.
IT 503279-41-2 503279-43-4 503279-71-0
503279-73-0 503279-73-2
RI REV [Device component use], USES [Uses]
[Incl: transport material; all organic electroluminescent device containing arylamino-substituted tetraphenylthiophene as hole-transport material]
RI 503279-41-2 CAPLUS
CI Benzenamine, 3,4-bis(methoxyphenyl)-N-phenyl-4-(2,4,5-triphenyl-3-thienyl)- (PCI) (CA INDEX NAME)

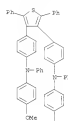


RI 503279-43-4 CAPLUS
CI Benzenamine, 3,4-bis(methoxy-N-phenyl)-N-4-(2,4,5-triphenyl-3-thienylphenyl)- (PCI) (CA INDEX NAME)

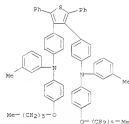


RI 503279-71-0 CAPLUS
CI Benzenamine, 4,4'-(2,5-diphenyl-3,4-thiophenediyl)bis[N-(4-methoxyphenyl)-N-phenyl]- (PCI) (CA INDEX NAME)

119 ANSWER 102 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

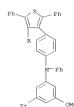


RI 503279-73-0 CAPLUS
CI Benzenamine, 4,4'-(2,5-diphenyl-3,4-thiophenediyl)bis[N-(4-(hexyloxyphenyl)-N-(3-methylphenyl)- (PCI) (CA INDEX NAME)



RI 503279-73-2 CAPLUS
CI Benzenamine, 4,4'-(2,5-diphenyl-3,4-thiophenediyl)bis[N-(3-ethyl-3-methoxyphenyl)-N-phenyl]- (PCI) (CA INDEX NAME)

119 ANSWER 102 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

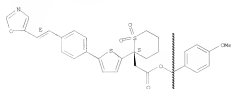


PAGE 1-A

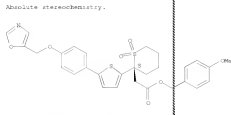


PAGE 2-A

119 ANSWER 123 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry as shown.



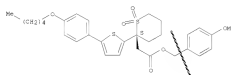
FN 501946-23-1 CAPLUS
CN 28-Thiopyran-2-acetic acid, tetrahydro-2-[5-[4-(1-methoxyphenyl)-2-thienyl]-1,1-dioxole, (2S)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.



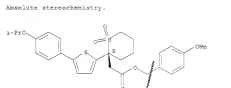
FN 501946-24-3 CAPLUS
CN 28-Thiopyran-2-acetic acid, tetrahydro-2-[5-[4-(1-methoxyphenyl)-3-methoxyphenyl]-1,1-dioxole, (2S)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.
Double bond geometry as shown.



119 ANSWER 103 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

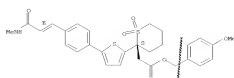


FN 501946-69-6 CAPLUS
CN 28-Thiopyran-2-acetic acid, tetrahydro-2-[5-[4-(1-methylethoxyphenyl)-2-thienyl]-1,1-dioxole, (2S)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

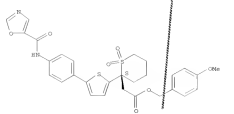


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE 95
FORMAT

119 ANSWER 103 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



FN 501946-26-5 CAPLUS
CN 28-Thiopyran-2-acetic acid, tetrahydro-2-[5-[4-[(1-methoxyphenyl)amino]phenyl]-2-thienyl]-1,1-dioxole, (2S)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.



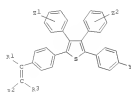
FN 501946-67-4 CAPLUS
CN 28-Thiopyran-2-acetic acid, tetrahydro-2-[5-[4-(pentyloxyphenyl)-2-thienyl]-1,1-dioxole, (2S)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.



119 ANSWER 104 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007120943 CAPLUS
DOCUMENT NUMBER: 138-561449
TITLE: Thiophene derivatives and organic electroluminescent devices using them
INVENTOR(S): Ishida, Tetsuo; Shimamura, Takeshi; Tanabe, Yoshihiro; Tanaka, Yoshiyuki; Hasegawa, Masakazu
PATENT ASSIGNOR(S): Nitel Chemicals Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 136 pp.
CODEN: JFOLAP
Abstract
FAMILY ACC. NUM. COUNT: 1
ENTRY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003033669	A	2003-02-19	JP 2001-147028	A 20010512
PRIORITY APPL. INFO.:			JP 2001-162596	A 20010530
			JP 2001-203918	A 20010704

OTHER SOURCE(S): MARPAT 581,261,449
GI

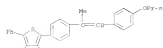


AB The invention relates to an organic electroluminescent device comprising a pair of electrodes sandwiching at least one layer(s) containing at least one thiophene derivative. [1] [1]-7 = H, straight, branched or cyclic alkyl, (un)substituted aryl or aralkyl; Y = H or C(R4)(C(R5)(R6); R4 = H, straight, branched or cyclic alkyl, (un)substituted aryl or aralkyl; R1-2 = H, halo, straight, branched or cyclic alkyl, (un)substituted amino, aryl or aralkyl].
 IT 502639-51-8 502639-59-0 502639-65-8
 502639-69-2 502639-71-6 502639-72-7
 502639-73-4 502639-80-7 502639-82-9
 502639-87-4 502639-92-3 502639-93-2
 502639-95-7 502639-99-8 502640-04-2
 502640-07-5 502640-08-6 502640-12-2
 502640-16-6 502640-20-2 502640-23-9
 502640-28-0 502640-37-7 502640-34-8
 502640-35-9 502640-39-3 502640-40-6
 R1: DRV (Device component use); USES (Uses)

119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
(novel thiophene deriva. for org. electroluminescent devices)

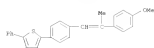
502419-57-8 CAPLOS

Thiophene, 2-[4-[(1-methyl-2-(4-propoxyphenyl)ethenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



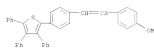
502419-59-0 CAPLOS

Thiophene, 2-[4-[(2-(4-methoxyphenyl)-1-propenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



502419-63-8 CAPLOS

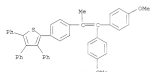
Thiophene, 2-[4-[(2-(4-methoxyphenyl)ethenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



502419-63-2 CAPLOS

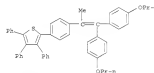
Thiophene, 2-[4-[(1-ethyl-2-(4-methoxyphenyl)-1-propenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)

119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



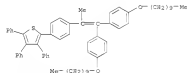
502419-82-7 CAPLOS

Thiophene, 2-[4-[(1-methyl-2,2-bis(4-propoxyphenyl)ethenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



502419-82-3 CAPLOS

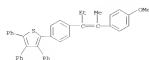
Thiophene, 2-[4-[(2-bis(4-(decyloxy)phenyl)-1-methylethenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



502419-81-4 CAPLOS

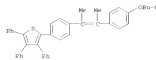
Thiophene, 2-[4-[(2-(4-methoxyphenyl)-1-phenylethenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)

119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



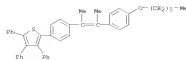
502419-71-6 CAPLOS

Thiophene, 2-[4-[(2-[4-(1,1-dimethylethoxy)phenyl]-1-methyl-1-propenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



502419-72-7 CAPLOS

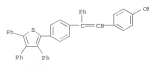
Thiophene, 2-[4-[(2-[4-(hexyloxy)phenyl]-1-methyl-1-propenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



502419-79-4 CAPLOS

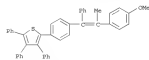
Thiophene, 2-[4-[(2-bis(4-methoxyphenyl)-3-methylethenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)

119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



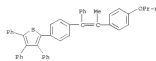
502419-82-1 CAPLOS

Thiophene, 2-[4-[(2-(4-methoxyphenyl)-1-phenyl-1-propenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



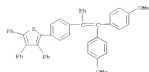
502419-93-2 CAPLOS

Thiophene, 2-[4-[(2-bis(4-methoxyphenyl)-5-[4-(1-phenyl-2-(4-propoxyphenyl)-1-propenyl)phenyl]- (9CI) (CA INDEX NAME)

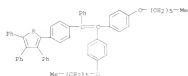


502419-98-7 CAPLOS

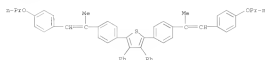
Thiophene, 2-[4-[(2-bis(4-methoxyphenyl)-1-phenylethenyl)phenyl]-3,4,5-triphenyl- (9CI) (CA INDEX NAME)



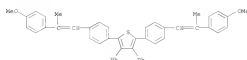
119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
 RH 502439-99-8 CAPLOS
 CN Thiophene,
 2-[4-{7,2-bis[4-(4-ethoxyphenyl)-1-phenylethenyl]phenyl}-3,4,5-triphenyl- (PC1) (CA INDEX NAME)



RH 502440-04-2 CAPLOS
 CN Thiophene,
 2,5-bis[4-{1-methyl-2-[4-(4-propoxyphenyl)ethenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)



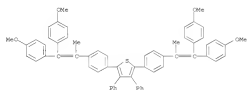
RH 502440-07-5 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2-(4-methoxyphenyl)-1-propenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)



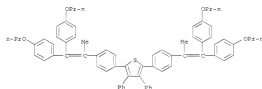
RH 502440-08-6 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2-(4-methylthiophenyl)-1-propenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)



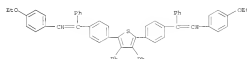
119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
 RH 502440-10-2 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2-(4-methoxyphenyl)-1-methylthienyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)



RH 502440-21-3 CAPLOS
 CN Thiophene,
 2,5-bis[4-{1-methyl-2,2-bis[4-(4-propoxyphenyl)ethenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)

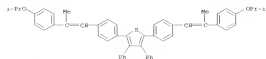


RH 502440-28-0 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2-[4-(4-methoxyphenyl)-1-phenylethenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)

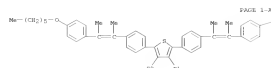


RH 502440-33-7 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2-[4-(4-methoxyphenyl)-1-phenyl-1-propenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)

119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

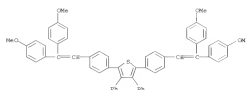


RH 502440-32-2 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2-[4-(4-methoxyphenyl)-3-methyl-1-propenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)



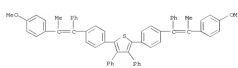
—O—(CH₂)₅—Me
 PAGE 3-B

RH 502440-34-6 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2,2-bis[4-(4-methoxyphenyl)ethenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)

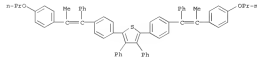


RH 502440-30-2 CAPLOS

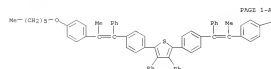
119 ANSWER 104 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



RH 502440-34-8 CAPLOS
 CN Thiophene,
 3,4-diphenyl-2,5-bis[4-{1-phenyl-2-[4-(4-propoxyphenyl)-1-propenyl]phenyl}- (PC1) (CA INDEX NAME)



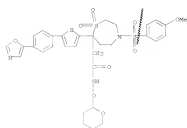
RH 502440-35-9 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2-[4-(4-methoxyphenyl)-3-phenyl-1-propenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)



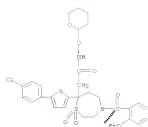
—O—(CH₂)₅—Me
 PAGE 3-B

RH 502440-39-2 CAPLOS
 CN Thiophene,
 2,5-bis[4-{2,2-bis[4-(4-methoxyphenyl)-1-phenylethenyl]phenyl}-3,4-diphenyl- (PC1) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

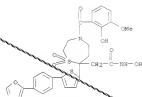


HN 355843-49-1 CAPLOS
CN 1,4-Thiazepine-7-acetamide, 7-[5-(4-chlorophenyl)-2-thienyl]-4-[(2-ethoxybenzoyl)hexahydro-8H-[tetrahydro-2H-pyran-2-yl]oxy]-1,1-dioxide (9CI) (CA INDEX NAME)

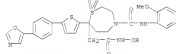


HN 355844-41-6 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-8H-hydroxy-4-[(2-methoxybenzoyl)-7-[5-[(1-methylamino)acetoxy]phenyl]-2-thienyl]-1,1-dioxide (9CI) (CA INDEX NAME)

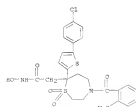
119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



HN 355844-65-4 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-8H-hydroxy-4-[(2-methoxybenzoyl)-7-[5-[(1-methylamino)acetoxy]phenyl]-2-thienyl]-1,1-dioxide (9CI) (CA INDEX NAME)

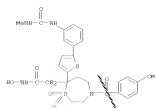


HN 355845-04-6 CAPLOS
CN 1,4-Thiazepine-7-acetamide, 7-[5-(4-chlorophenyl)-2-thienyl]hexahydro-8H-hydroxy-4-(2-methoxybenzoyl)-1,1-dioxide (9CI) (CA INDEX NAME)

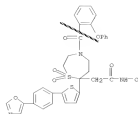


HN 355845-21-1 CAPLOS
CN 1,4-Thiazepine-7-acetamide, 7-[5-(4-ethylphenyl)-2-thienyl]hexahydro-8H-hydroxy-4-(2-methoxybenzoyl)-1,1-dioxide (9CI) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

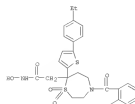


HN 355844-67-2 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-8H-hydroxy-7-[5-[(4-oxo-5-oxaaryl)phenyl]-2-thienyl]-4-(2-phenoxybenzoyl)-1,1-dioxide (9CI) (CA INDEX NAME)

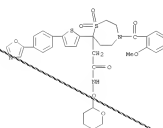


HN 355844-68-3 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-8H-hydroxy-4-(2-hydroxy-3-methoxybenzoyl)-7-[5-[(4-oxo-5-oxaaryl)phenyl]-2-thienyl]-1,1-dioxide (9CI) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

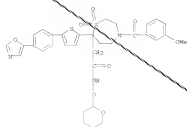


HN 355845-42-5 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-4-(2-methoxybenzoyl)-7-[5-[(4-oxo-5-oxaaryl)phenyl]-2-thienyl]-8H-[tetrahydro-2H-pyran-2-yl]oxy]-1,1-dioxide (9CI) (CA INDEX NAME)

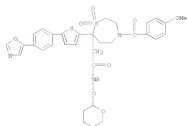


HN 355845-43-1 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-4-(2-methoxybenzoyl)-7-[5-[(4-oxo-5-oxaaryl)phenyl]-2-thienyl]-8H-[tetrahydro-2H-pyran-2-yl]oxy]-1,1-dioxide (9CI) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

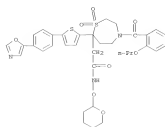


320 355845-44-2 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-4-(4-methoxybenzoyl)-7-[(4-{5-oxazolyl}phenyl)-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

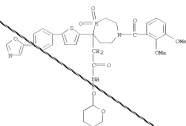


320 355845-52-2 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-{4-[5-oxazolyl]phenyl}-2-thienyl]-4-{5-propoxybenzoyl}-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

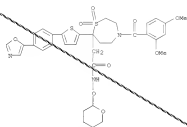


320 355845-63-5 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 4-{[2,3-dimethoxybenzoyl]hexahydro-7-[5-{4-[5-oxazolyl]phenyl}-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

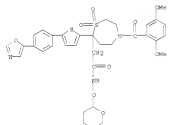


320 355845-64-6 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 4-{[2,4-dimethoxybenzoyl]hexahydro-7-[5-{4-[5-oxazolyl]phenyl}-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

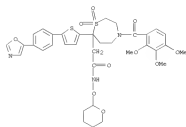


320 355845-69-1 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 6-{[2,5-dimethoxybenzoyl]hexahydro-7-[5-{4-[5-oxazolyl]phenyl}-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

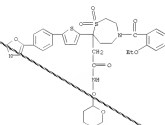


320 355845-70-4 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-{4-[5-oxazolyl]phenyl}-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-4-(2,3,4-trimethoxybenzoyl)-, 1,1-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

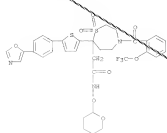


320 355845-72-4 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 4-{[2-ethoxybenzoyl]hexahydro-7-[5-{4-[5-oxazolyl]phenyl}-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

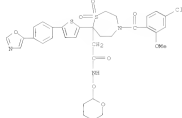


320 355845-73-7 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-{4-[5-oxazolyl]phenyl}-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-4-(2-{[trifluoromethoxy]benzoyl}-, 1,1,3-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

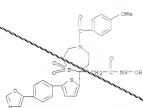


9C1 355846-75-9 CAPLOS
 CH 1,4-Thiazepine-7-acetamide,
 4-[(4-chloro-2-methoxybenzoyl)hexahydro-7-[5-[4-
 (5-oxazolyl)phenyl]-2-thienyl]-6-[1-tetrahydro-2H-pyran-2-yl)oxy]-,
 1,1-dioxide (9C1) (CA INDEX NAME)

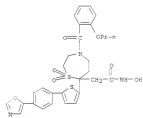


9C1 355846-02-3 CAPLOS
 CH 1,4-Thiazepine-7-acetamide,
 hexahydro-8-hydroxy-4-[(2-methoxybenzoyl)-7-[5-
 (4-[5-oxazolyl)phenyl]-2-thienyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 105 OF 210 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

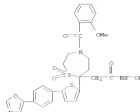


9C1 355846-10-5 CAPLOS
 CH 1,4-Thiazepine-7-acetamide, hexahydro-8-hydroxy-4-[(5-oxazolyl)phenyl]-2-thienyl]-4-[(2-pyrimidinyl)phenyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)

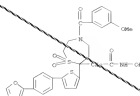


9C1 355846-19-3 CAPLOS
 CH 1,4-Thiazepine-7-acetamide, 7-[5-(4-chlorophenyl)-2-thienyl]-4-[(2-methoxybenzoyl)hexahydro-8-hydroxy-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

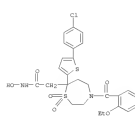


9C1 355846-01-4 CAPLOS
 CH 1,4-Thiazepine-7-acetamide,
 hexahydro-8-hydroxy-4-[(2-methoxybenzoyl)-7-[5-
 (4-[5-oxazolyl)phenyl]-2-thienyl)-, 1,1-dioxide (9C1) (CA INDEX NAME)

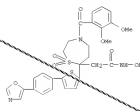


9C1 355846-02-5 CAPLOS
 CH 1,4-Thiazepine-7-acetamide,
 hexahydro-8-hydroxy-4-[(2-methoxybenzoyl)-7-[5-
 (4-[5-oxazolyl)phenyl]-2-thienyl)-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

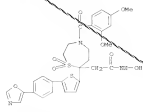


9C1 355846-52-5 CAPLOS
 CH 1,4-Thiazepine-7-acetamide,
 4-[(2,4-dimethoxybenzoyl)hexahydro-8-hydroxy-7-
 (5-[4-[5-oxazolyl)phenyl]-2-thienyl)-, 1,1-dioxide (9C1) (CA INDEX NAME)

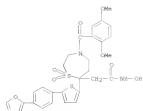


9C1 355846-53-6 CAPLOS
 CH 1,4-Thiazepine-7-acetamide,
 4-[(2,4-dimethoxybenzoyl)hexahydro-8-hydroxy-7-
 (5-[4-[5-oxazolyl)phenyl]-2-thienyl)-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

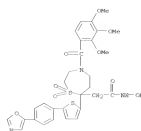


XX 355846-79-2 CAPLOS
CN 3,4-Thiazepine-7-acetamide,
4-(12-{[4-(5-oxazolyl)phenyl]-2-thienyl}-4-{2,3,4-trimethoxybenzoyl})-, 1,1-dioxide (9C1) (CA INDEX NAME)

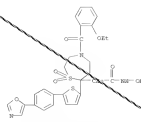


XX 355846-76-3 CAPLOS
CN 3,4-Thiazepine-7-acetamide, hexahydro-8-hydroxy-7-[(4-{[4-(5-oxazolyl)phenyl]-2-thienyl}-4-{2,3,4-trimethoxybenzoyl})-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

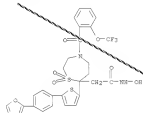


XX 355846-76-5 CAPLOS
CN 3,4-Thiazepine-7-acetamide,
4-(12-{[4-(5-oxazolyl)phenyl]-2-thienyl}-4-{2,3,4-trimethoxybenzoyl})-, 1,1-dioxide (9C1) (CA INDEX NAME)

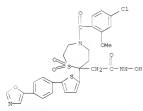


XX 355846-79-6 CAPLOS
CN 3,4-Thiazepine-7-acetamide, hexahydro-8-hydroxy-7-[(4-{[4-(5-oxazolyl)phenyl]-2-thienyl}-4-{2-trifluoromethylbenzoyl})-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

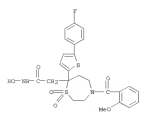


XX 355846-81-0 CAPLOS
CN 3,4-Thiazepine-7-acetamide, 4-(12-{[4-(5-oxazolyl)phenyl]-2-thienyl}-4-{2-chloro-2-methoxybenzoyl})-, 1,1-dioxide (9C1) (CA INDEX NAME)

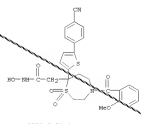


XX 355846-91-2 CAPLOS
CN 3,4-Thiazepine-7-acetamide, 7-[(5-{4-(cyanophenyl)-2-thienyl}hexahydro-8-hydroxy-4-(2-methoxybenzoyl))-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 105 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

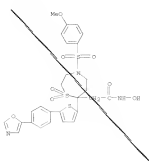


XX 355846-95-6 CAPLOS
CN 3,4-Thiazepine-7-acetamide, 7-[(5-{4-(cyanophenyl)-2-thienyl}hexahydro-8-hydroxy-4-(2-methoxybenzoyl))-, 1,1-dioxide (9C1) (CA INDEX NAME)



XX 355847-76-6 CAPLOS
CN 3,4-Thiazepine-7-acetamide, hexahydro-8-hydroxy-4-[(4-methoxyphenyl)sulfonyl]-7-[(5-{4-(5-oxazolyl)phenyl]-2-thienyl})-, 1,1-dioxide (9C1) (CA INDEX NAME)

112 ANSWER 105 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

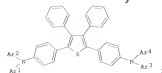


L13 ANMERK 106 OF 250 CAPLUS COPYRIGHT 2007 ACE ON SYN
ACCESSION NUMBER: 2007194718 CAPLUS
DOCUMENT NUMBER: 138124850
TITLE: Organic electroluminescent element
INVENTOR(S): Nakatani, Masahito; Shimamura, Takehiko Ishida,
Tetsuo; Tanabe, Yoshimitsu; Totani, Yoshiyuki
PATENT ASSIGNEE(S): Matsui Chemicals Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODIN: JPCOANF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACQ. SEM. COUNT: 1
PATENT INFORMATION: www.patent-portal.com

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003036978	A	20030207	JP 2001-210944	2001
PRIORITY APPL. INFO.:			JP 2001-210944	2001
OTHER SOURCE(S):	MARKPAT	13:144050		
GI				

OTHER SOURCE(S) : NARPA7 135-144850

GI

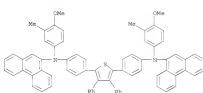


Ar3,4 may join together to form a heterocyclic ring, but at least one of Ar1-4 is an (un)substituted phenanthryl).

IV 494759-1

RL: DEV (Device component use); USES (Uses)
 (organic electroluminescent element using phenanthryl thiophene
 derivative)
 FN 494759-82-9 CAPLOS
 CN 9-Phenanthrenesulfone, N,N'-[3,4-diphenyl-2,5-thiophenediyl]di-4,1-
 phenylenebis[3-N-(4-methoxy-3-methylphenyl)-9C1] ICA INDEX NAME

E19 ANSWER 106 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN [Continued]



L19 ANSWER 107 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER:	2002:964342 CAPLOS
DOCUMENT NUMBER:	138:24951
TITLE:	Preparation of amino acid baryol derivatives for the treatment or prevention of flavivirus infections
INVENTOR(S):	Chan, Chun Nong Leung; Bodard, Jean; Das, Sanjoy Kumar; Ferreira, Oswy E.; Shyloworth, Steve; Siddiqui, M. Arshad; Wang, Wei
PATENT ASSIGNEE(S):	Shire Blochem Inc., Can.; Nuyten Ba, Nqhe
SOURCE:	PCR Int. Appl., 141 pp.
DOCUMENT TYPE:	COBLEN: PEXKXZ
LANGUAGE:	Patent
FAMILY ACC. NUM. COUNT:	English
PATENT INFORMATION:	1

PATENT NO.	INVENTOR	KIND	DATE	APPLICATION NO.	DATE	
NO 0000106464	A		200512123	A	2002-06-27	20050103
M1	Ad, Al, Au, As, Ar, At, B, Ba, Be, Bi, Br, By, Bz, Ca, Cb, Cc, Cd, Ce, Cf, Ch, Cl, Co, Cr, Cs, Cu, Cx, Cy, Cz, D, Da, Db, Dc, De, Df, Dg, Dh, Di, Dj, Dk, Dl, Dm, Dn, Do, Dp, Dq, Dr, Ds, Dt, Du, Dv, Dw, Dx, Dy, Dz, E, Ea, Eb, Ec, Ed, Ee, Ef, Eg, Eh, Ei, Ej, Ek, El, Em, En, Eo, Ep, Eq, Er, Es, Et, Eu, Ev, Ew, Ex, Ey, Ez, F, Fa, Fb, Fc, Fd, Fe, Ff, Fg, Fh, Fi, Fj, Fk, Fl, Fm, Fn, Fo, Fp, Fq, Fr, Fs, Ft, Fu, Fv, Fw, Fx, Fy, Fz, G, Ga, Gb, Gc, Gd, Ge, Gf, Gg, Gh, Gi, Gj, Gk, Gl, Gm, Gn, Go, Gp, Gq, Gr, Gs, Gt, Gu, Gv, Gw, Gx, Gy, Gz, H, Ha, Hb, Hc, Hd, He, Hf, Hg, Hh, Hi, Hj, Hk, Hl, Hm, Hn, Ho, Hp, Hq, Hr, Hs, Ht, Hu, Hv, Hw, Hx, Hy, Hz, I, Ia, Ib, Ic, Id, Ie, If, Ig, Ih, Ii, Ij, Ik, Il, Im, In, Io, Ip, Iq, Ir, Is, It, Iu, Iv, Iw, Ix, Iy, Iz, J, Ja, Jb, Jc, Jd, Je, Jf, Jg, Jh, Ji, Jj, Jk, Jl, Jm, Jn, Jo, Jp, Jq, Jr, Js, Jt, Ju, Jv, Jw, Jx, Jy, Jz, K, Ka, Kb, Kc, Kd, Ke, Kf, Kg, Kh, Ki, Kj, Kk, Kl, Km, Kn, Ko, Kp, Kq, Kr, Ks, Kt, Ku, Kv, Kw, Kx, Ky, Kz, L, La, Lb, Lc, Ld, Le, Lf, Lg, Lh, Li, Lj, Lk, Ll, Lm, Ln, Lo, Lp, Lq, Lr, Ls, Lt, Lu, Lv, Lw, Lx, Ly, Lz, M, Ma, Mb, Mc, Md, Me, Mf, Mg, Mh, Mi, Mj, Mk, Ml, Mm, Mn, Mo, Mp, Mq, Mr, Ms, Mt, Mu, Mv, Mw, Mx, My, Mz, N, Na, Nb, Nc, Nd, Ne, Nf, Ng, Nh, Ni, Nj, Nk, Nl, Nm, Nn, No, Np, Nq, Nr, Ns, Nt, Nu, Nv, Nw, Nx, Ny, Nz, O, Oa, Ob, Oc, Od, Oe, Of, Og, Oh, Oi, Oj, Ok, Ol, Om, On, Oo, Op, Oq, Or, Os, Ot, Ou, Ov, Ow, Ox, Oy, Oz, P, Pa, Pb, Pc, Pd, Pe, Pf, Pg, Ph, Pi, Pj, Pk, Pl, Pm, Pn, Po, Pp, Pq, Pr, Ps, Pt, Pu, Pv, Pw, Px, Py, Pz, Q, Qa, Qb, Qc, Qd, Qe, Qf, Qg, Qh, Qi, Qj, Qk, Ql, Qm, Qn, Qo, Qp, Qq, Qr, Qs, Qt, Qu, Qv, Qw, Qx, Qy, Qz, R, Ra, Rb, Rc, Rd, Re, Rf, Rg, Rh, Ri, Rj, Rk, Rl, Rm, Rn, Ro, Rp, Rq, Rr, Rs, Rt, Ru, Rv, Rw, Rx, Ry, Rz, S, Sa, Sb, Sc, Sd, Se, Sf, Sg, Sh, Si, Sj, Sk, Sl, Sm, Sn, So, Sp, Sq, Sr, Ss, St, Su, Sv, Sw, Sx, Sy, Sz, T, Ta, Tb, Tc, Td, Te, Tf, Tg, Th, Ti, Tj, Tk, Tl, Tm, Tn, To, Tp, Tq, Tr, Ts, Tu, Tv, Tw, Tx, Ty, Tz, U, Ua, Ub, Uc, Ud, Ue, Uf, Ug, Uh, Ui, Uj, Uk, Ul, Um, Un, Uo, Up, Uq, Ur, Us, Ut, Uv, Uw, Ux, Uy, Uz, V, Va, Vb, Vc, Vd, Ve, Vf, Vg, Vh, Vi, Vj, Vk, Vl, Vm, Vn, Vo, Vp, Vq, Vr, Vs, Vt, Vu, Vv, Vw, Vx, Vy, Vz, W, Wa, Wb, Wc, Wd, We, Wf, Wg, Wh, Wi, Wj, Wk, Wl, Wm, Wn, Wo, Wp, Wq, Wr, Ws, Wt, Wu, Wv, Ww, Wx, Wy, Wz, X, Xa, Xb, Xc, Xd, Xe, Xf, Xg, Xh, Xi, Xj, Xk, Xl, Xm, Xn, Xo, Xp, Xq, Xr, Xs, Xt, Xu, Xv, Xw, Xx, Xy, Xz, Y, Ya, Yb, Yc, Yd, Ye, Yf, Yg, Yh, Yi, Yj, Yk, Yl, Ym, Yn, Yo, Yp, Yq, Yr, Ys, Yt, Yu, Yv, Yw, Yx, Yy, Yz, Z, Za, Zb, Zc, Zd, Ze, Zf, Zg, Zh, Zi, Zj, Zk, Zl, Zm, Zn, Zo, Zp, Zq, Zr, Zs, Zt, Zu, Zv, Zw, Zx, Zy, Zz					
CA 2449999	A		200512139	CA 2002-1449999		20050616
US 20052219053	A1		200513111	US 2002-1466000		20050616
EP 1395511	A1		200404030	EP 2002-74264		20050616
FI 20040008	CH, DE, FR, GB, HU, IT, JP, KR, NL, NO, PL, PT, SE, SG, SI, SK, TR, TW, UA, US, VN, ZA, ZW		200505018	7	200505018	

OTHER SOURCE(S): MARPAT 138:24951
 AB Novel compds. R4-Z-Y-N(R3)C(R2)-A1-A [M = SO2, CO, CS, CH2CO, COCH2O, CO2, CH2, or alkylmethylene; A1 = a bond, alkyl, alkenyl, or alkynyl; A = CO2R5, COCO2R5, RO3R5, RO3R5, tetraol, COHR5CHR5CO2R5, CONR52,

CONF. 508

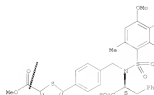
(R⁵ = H or alkyl); R³, R² = H, alkyl, aryl, heterocyclyl, aralkyl, or heteroaralkyl; R⁴ = aryl, heterocyclyl, aralkyl, or heteroaralkyl; Y = CH₃, CO, C(CH₃)₂, NH, or a bond; Z = alkyl, alkensyl, alkynyl, aryl, or heterocyclyl; R⁶ = H, halo, CN, NO₂, alkyl, aryl, heterocyclyl, aralkyl, heteroaralkyl, NR₃, SO₂NR₂, SO₂NR₃, aralkoxy, aralkyloxy, or OR⁷, where

K7 = aryl or heterocyclyl, with the proviso that the compound is other than 3-[3-(2,6-dichloropyridin-4-yl)-1-(4-thiophen-2-ylbenzyl)ureido]-3-thiophen-2-ylpropionic acid) or their pharmaceutically-acceptable salts were prepared for treating Flaviviridae viral infection. Thus,

2-[(2,4-dichlorobenzoyl)[3-(3,5-difluorophenyl)thiophen-2-ylmethyl]amino]-3-phenylpropionic acid was prepared from 2-amino-3-phenylpropionic acid

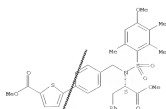
tert-Bu ester by reductive acylation with 3-bromothiophene-2-

- 119 ANSWER 107 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
- carboxylic acid, arylation with 2,4-dichlorobenzoyl chloride, arylation with 2,5-difluorophenylthio chloride, and ester cleavage with TFA. The product showed 100% α 5 nm in the hepatitis C virus RNA-dependent polymerase assay.
- IT 478234-43-0
- Re: PNC (Pharmacological activity); SM (Synthetic preparation); TBO (Toxicological use); RSC (Biological study); PREP (Preparation); USGS (GSA)
- of Preparation of amino acid biaryl derivs. for treatment or prevention of
- Flavivirus infections
- Re 478234-43-8 CAPLUS
- CH 2-Thiophenecarboxylic acid, 5-[4-[[[118]-1-carboxy-2-phenylethyl]](4-methoxy-2,3,4-trimethylphenyl)sulfonyl]amino)methyl]phenyl-, 5-methyl ester (9C1) (CA INDEX NAME)
- Absolute stereochemistry.

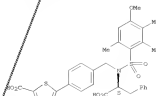


- IT 478234-34-3P 478234-35-GP
- Re: KC (Reactant); SM (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
- of Preparation of amino acid biaryl derivs. for treatment or prevention of
- Flavivirus infections
- Re 478234-34-3 CAPLUS
- CH 2-Thiophenecarboxylic acid, 5-[4-[[[118]-2-methoxy-2-oxo-1-(phenylmethyl)ethyl]](4-methoxy-2,3,4-trimethylphenyl)sulfonyl]amino)methyl]phenyl-, methyl ester (9C1) (CA INDEX NAME)
- Absolute stereochemistry.

- 119 ANSWER 107 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



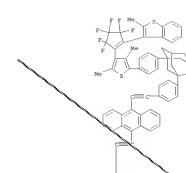
- Re 478234-35-4 CAPLUS
- CH 2-Thiophenecarboxylic acid, 5-[4-[[[118]-1-carboxy-2-phenylethyl]](4-methoxy-2,3,4-trimethylphenyl)sulfonyl]amino)methyl]phenyl-, (9C1) (CA INDEX NAME)
- Absolute stereochemistry.



- REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

- 119 ANSWER 108 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
- ACCESSION NUMBER: 20021803048 CAPLUS
- DOCUMENT NUMBER: 139180188
- TITLE: Fluorescence switching of photochromic diarylethenes
- Author(s): Kawai, Tetsuhiko; Kim, Myoung-Suk; Sasaki, Takatoshi; Irie, Masahiro
- CORPORATE SOURCE: Japan Science and Technology Corporation, Graduate School of Engineering, Department of Chemistry and Biochemistry, Ryukyu University and CSREB,
- Keywords: Kawai, Tetsuhiko; Japan
- SOURCE: Optimal Materials (Netherlands, Netherlands) (2003), 2(11-3), 275-278
- COMBUSTION: ISSN: 0925-3467
- PUBLISHER: Elsevier Science B.V.
- DOCUMENT TYPE: Journal
- LANGUAGE: English
- AB Fluorescence switching performance of photochromic diarylethenes has been studied. A bisbenzocyclopentadiene having *m*-terphenyl substituents underwent reversible photochromic reactions in the amorphous solid state and exhibited fluorescence intensity change and shift of the emission band with the photochromic reaction. A diarylethene connected with a fluorocarbon 3,10-bis(phenylethynyl)anthracene unit through an adamantyl unit shows reversible fluorescence intensity change with the photochromic reactions of the diarylethenes.
- IT 575112-51-0P
- Re: CPB (Chemical process); PEP (Physical, engineering or chemical process); PREP (Properties); SM (Synthetic preparation); PREP (Preparation); PROC (Process)
- of Fluorescence switching of photochromic diarylethenes
- Re 575112-51-3 CAPLUS
- CH Benzo[b]thiophene, 3-[2-[5-[4-[3-[4-[[10]-[4-chloro-2,5-dimethoxyphenyl]ethyl]-9-anthracenylethynyl]phenyl]tricyclo[3.3.1.1^{3,2}.1^{2,3}]]-5-ene-1-yl]phenyl]-2,4-dimethyl-2-thienyl]-5,2,4,4,5,5-hexafluoro-2-ene-10-yl]-2-methyl- (9C1) (CA INDEX NAME)

- 119 ANSWER 108 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



- Re 575112-51-3 CAPLUS
- CH Benzo[b]thiophene, 3-[2-[5-[4-[3-[4-[[10]-[4-chloro-2,5-dimethoxyphenyl]ethyl]-9-anthracenylethynyl]phenyl]tricyclo[3.3.1.1^{3,2}.1^{2,3}]]-5-ene-1-yl]phenyl]-2,4-dimethyl-2-thienyl]-5,2,4,4,5,5-hexafluoro-2-ene-10-yl]-2-methyl- (9C1) (CA INDEX NAME)

- REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

119 ANSWER 109 OF 250 CARLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002188730 CARLOS
 DOCUMENT NUMBER: 1371384747
 TITLE: Preparation of arylsulfonylpyrrolidines as
 matrix metalloproteinase and/or angiotensin inhibitors
 INVENTOR(S): Barla, Thomas E.; Becker, Daniel F.; Bedell, Louis
 J. J.
 PATENT ASSIGNEE(S): Novartis
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. NUM. COUNTRY: 2
 PATENT INFORMATION: 2

PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2002092588 A2 20021121 WO 2002-081525 20020510
 WO 2002092589 A3 20020213
 SE AB, AD, AG, AM, AT, AU, BA, BE, BG, BR, CA, CH, CN, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, MA, MD, ME, MG, MK, MU, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SN, TH, TN, TR, TT, US, UA, VE, ZA, ZM, ZW
 JN GB, GR, HU, IE, IL, IN, JP, KR, MA, MD, ME, MG, MK, MU, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SN, TH, TN, TR, TT, US, UA, VE, ZA, ZM, ZW
 CA 2446586 A 20021121 CA 2002-144584 20020510
 CA 2002359212 A1 20021123 AD 2002-129212 20020510
 EP 3385816 A 20020204 EP 2002-732024 20020510
 FI, AT, BE, BR, DE, ES, FR, GB, GR, IT, IL, LV, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SN, TH, TN, TR, TT, US, UA, VE, ZA, ZM, ZW
 JP 2004042408 A 20040428 JP 2003-4089 20020510
 JP 2004042409 T 20041207 JP 2002-389473 20020510
 SA 2004042408 A 20040428 JP 2002-389473 20020510
 ZA 200501175 A 20050117 ZA 2003-8525 20020510
 BG 100185 A 20040930 BG 2003-108185 20021023
 IN 20030601710 IN 20031119 IN 2003-281709 20021020
 IN 2003060490 A 20031116 IN 2003-4995 20021010
 MG 2003061026 A 20040730 MG 2003-183016 20031111
 US 2005021641 A1 20050512 US 2004-190483 20041117
 PRIORITY APPL. INFO.: P 20020510
 WO 2002-142731 A3 20020510
 WO 2002-081525 W 20020510

119 ANSWER 109 OF 250 CARLOS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 2002188730 CARLOS
 DOCUMENT NUMBER: 1371384747
 TITLE: Preparation of arylsulfonylpyrrolidines as
 matrix metalloproteinase and/or angiotensin inhibitors
 INVENTOR(S): Barla, Thomas E.; Becker, Daniel F.; Bedell, Louis
 J. J.
 PATENT ASSIGNEE(S): Novartis
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. NUM. COUNTRY: 2
 PATENT INFORMATION: 2

AB Title compo. [1] A = R, (substituted) alkyl(methyl), alkoxy(methyl), carbonyl(methyl), heterocyclyl(methyl), aminoalkylthio(methyl), etc.; A2X = (substituted) heterocyclyl; R1 = O, S, SO, SO2, SR, CO2R, CR1R2; R2 = (substituted) alkyl, cycloalkyl, alkoxyalkyl, cycloalkoxyalkyl, alkoxyalkoxyalkyl, alkyl, etc.; R3 = O, CO, CO2, CO2R, SO, etc.; R4 = bond, (substituted) alkyl, alkoxy; R5 = H, CH, (substituted) alkyl, alkoxy, alkylaryl, alkoxy, alkoxyalkyl, carbocyclyl, heterocyclyl; R1, R2 = H, (substituted) alkyl with protons, were prepared. Thus,

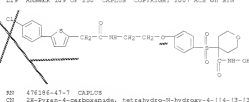
tetradecan-4-[[4-[[15-(4-methoxyphenyl)-3-oxopentyl]oxy]phenylsulfonyl]-2-pyran-4-carboxylic acid 1,1-dimethyl ester (preparation given) in CHCl3 was treated with NaHCO3 and Salt to give 81% cyclophosphid. The product in DMF was treated with 1-hydroxybenzotriazole, 1-(3-dimethylamino)propyl-3-ethylcarbodiimide hydrochloride, N-methylmorpholine, and tetrahydrophosphoramine to give 100% of the product. The letter was stirred with aqueous HCl in dioxane/NaOH to give 59%

4-[[4-[[14(5)-5-oxo-5-(4-methoxyphenyl)-4-pentenoxy]phenyl]sulfonyl]tetrahydro-8-hydroxy-2-pyran-4-carboxamide. This inhibited ND1-13 with IC50 = 0.2 mM.

IT 47183-89-8P 47184-47-7
 RU 2418-89-8P 47184-47-7
 (Therapeutic use) ECL (Biological activity); ECL (Synthetic preparation); ECL (Therapeutic use) ECL (Biological activity); ECL (Synthetic preparation) (US)

(claimed compound) preparation of arylsulfonylpyrrolidines as matrix metalloproteinase and/or angiotensin inhibitors
 RU 47183-89-8 CARLOS
 CN 28-Pyran-4-carboxamide, 4-[[4-[[15-(4-chlorophenyl)-2-thienyl]sulfonyl]ethoxy]phenyl]sulfonyl]tetrahydro-8-hydroxy- (9CI)
 (CA INDEX NAME)

119 ANSWER 109 OF 250 CARLOS COPYRIGHT 2007 ACS on STN (Continued)

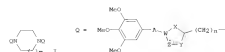


RU 47183-89-8P 47184-47-7 CARLOS
 CN 28-Pyran-4-carboxamide, 4-[[4-[[15-(4-chlorophenyl)-2-thienyl]sulfonyl]ethoxy]phenyl]sulfonyl]tetrahydro-8-hydroxy- (9CI)
 (CA INDEX NAME)

119 ANSWER 110 OF 250 CARLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002188730 CARLOS
 DOCUMENT NUMBER: 1371384747
 TITLE: Preparation of
 matrix metalloproteinase and/or angiotensin inhibitors
 INVENTOR(S): Kodama, Tetsuaki; Tamura, Masahiro; Oda, Toshiaki; Yamazaki, Yukio; Hashikawa, Masahiro; Doi, Takanori; Kiyosaki, Yoshinori
 PATENT ASSIGNEE(S): Kowa Co., Ltd., Japan
 SOURCE: U.S. 23 pp
 COORD. NUMBER: US/2002/001659
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. NUM. COUNTRY: 1
 PATENT INFORMATION: 1

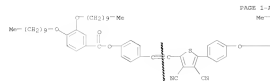
PATENT NO. KIND DATE APPLICATION NO. DATE
 US 6461298 A1 20020510 US 2002-001659 20020510
 CN 2451338 A1 20020510 CN 2002-245138 20020510
 WO 2003002540 A1 20030109 WO 2002-794488 20020510
 WO 2003002540 A1 20030109 WO 2002-794488 20020510
 SE AB, AD, AG, AM, AT, AU, BA, BE, BG, BR, CA, CH, CN, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, MA, MD, ME, MG, MK, MU, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SN, TH, TN, TR, TT, US, UA, VE, ZA, ZM, ZW
 JN GB, GR, HU, IE, IL, IN, JP, KR, MA, MD, ME, MG, MK, MU, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SN, TH, TN, TR, TT, US, UA, VE, ZA, ZM, ZW
 CA 2446586 A 20021121 CA 2002-144584 20020510
 CA 2002359212 A1 20021123 AD 2002-129212 20020510
 EP 1405515 A 20040724 EP 2002-748187 20020510
 FI, AT, BE, BR, DE, ES, FR, GB, GR, IT, IL, LV, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SN, TH, TN, TR, TT, US, UA, VE, ZA, ZM, ZW
 IN 20030601710 IN 20031119 IN 2003-281709 20021020
 IN 2003060490 A 20031116 IN 2003-4995 20021010
 MG 2003061026 A 20040730 MG 2003-183016 20031111
 US 2005021641 A1 20050512 US 2004-190483 20041117
 PRIORITY APPL. INFO.: P 20020510
 WO 2002-142731 A3 20020510
 WO 2002-081525 W 20020510

OTHER SOURCE(S): NERPAT 1371384746
 GI



AB Title compo. [1] A = bond, C, lipophilic, COOR HMO; W = C, H, K = CH, O, S, Y, Z = CH, CH2, in which R1 = H, alkyl, heterocyclyl, alkoxyalkyl, aryl, aralkyl, heterocyclyl, alkyl, etc.; R2 = H, CH, (substituted) alkyl, alkoxy, alkylaryl, alkoxy, alkoxyalkyl, carbocyclyl, heterocyclyl; R1, R2 = H, (substituted) alkyl with protons, were prepared. Thus,

L19 ANSWER 111 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RI: PEP (Physical, engineering or chemical process); PEP (Properties);
 PTP (Physical process); SYN (Synthetic preparation); PREP (Preparation); PROC
 (Process)
 RI [groups], liq. crystal properties and phase transition enthalpies of
 4167818-42-1 CAPLUS
 CH Benzoic acid, 3,4-bis(decyloxy)-, 4-[[5-[4-[[3,4-bis(decyloxy)benzoyloxy]phenyl]-3,4-dicyano-2-thienyl]ethynyl]phenyl
 ester (PCI) (CA INDEX NAME)

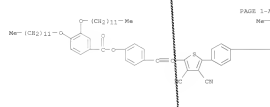


PAGE 1-A



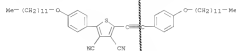
PAGE 1-B

4167818-43-2 CAPLUS
 CH Benzoic acid, 3,4-bis(decyloxy)-, 4-[[5-[4-[[3,4-bis(decyloxy)benzoyloxy]phenyl]-3,4-dicyano-2-thienyl]ethynyl]phenyl
 ester (PCI) (CA INDEX NAME)



PAGE 1-A

L19 ANSWER 111 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

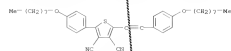
L19 ANSWER 111 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 PAGE 1-B



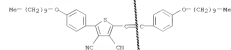
4167818-47-6 CAPLUS
 CH 3,4-Thiophenedicarboxitrile, 2-[4-(benzyloxy)phenyl]-5-[4-(benzyloxy)phenyl]ethynyl- (PCI) (CA INDEX NAME)



4167818-48-7 CAPLUS
 CH 3,4-Thiophenedicarboxitrile, 2-[4-(octyloxy)phenyl]-5-[4-(octyloxy)phenyl]ethynyl- (PCI) (CA INDEX NAME)



4167818-49-8 CAPLUS
 CH 3,4-Thiophenedicarboxitrile, 2-[4-(decyloxy)phenyl]-5-[4-(decyloxy)phenyl]ethynyl- (PCI) (CA INDEX NAME)



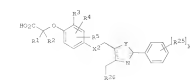
4167818-50-1 CAPLUS
 CH 3,4-Thiophenedicarboxitrile, 2-[4-(dodecyloxy)phenyl]-5-[4-(dodecyloxy)phenyl]ethynyl- (PCI) (CA INDEX NAME)

L19 ANSWER 112 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001070057 CAPLUS
 DOCUMENT NUMBER: 137140514
 TITLE: Preparation of thianole and oxazole derivatives as
 antagonists of human peroxisome proliferator activated
 receptors
 INVENTOR(S): Banker, Plavetter; Cadilla, Rodolfo; Lambert, Willard
 Hurst, III; Rafferty, Stephen William; Sternbach,
 Daniel David; Szmajda, Marcos Luis
 PATENT ASSIGNOR(S): Glaxo group Limited, UK
 SOURCE: PCT Int. Appl., 138 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 PATENT INFORMATION: 1

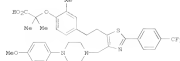
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002050099	A1	20020801	MO 2001-0951056	20011219
WI	AE, AG, AL, AM, AT, AU, BA, BB, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CY, DE, DK, DM, ES, EC, EE, EG, FI, GB, GR, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LA, LB, LG, LI, LU, LV, LY, MA, MG, MK, MN, MU, MV, MW, MY, NZ, OM, OS, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SM, SN, SR, ST, SV, TH, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM			
HA	GB, GR, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LA, LB, LG, LI, LU, LV, LY, MA, MG, MK, MN, MU, MV, MW, MY, NZ, OM, OS, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SM, SN, SR, ST, SV, TH, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM			
NO 2002246903	A1	20020806	NO 2002-246903	20011219
EP 1349843	A1	20021008	EP 2001-994514	20011219
EP 1349843	B1	20030420		
FI 1349843	A1	20021008		
JP 2004203777	T	20040708	JP 2002-559400	20011219
KZ 2002011	T	20040815	KZ 2001-994514	20011219
PT 1349843	T	20020930	PT 2001-994514	20011219
RS 2240558	TS	20051016	RS 2001-994514	20011219
US 2004072839	A1	20040415	US 2003-451295	20010301
US 2007072871	A1	20070329	US 2006-550600	20060107
US 7123908	B2	20070612		
PRIORITY APPL. INFO.:				
			GB 2000-31103	A 20001220
			MO 2001-0951056	W 20011219
			US 2003-451295	B1 20030101

OTHER SOURCE(S): MARPAT 137140514
 GI

L19 ANSWER 112 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



I



II

AB The title compds. [I: R1, R2 = H, alkyl; R2 = O, S, CH2; R3-R5 = H, alkyl.

Obs, CF3, CCF3, CN, allyl, halo Y = S, O; R25 = Me, OMe, CF3, halo Y = S, O; R25 = substituted piperidino, piperidino, morpholino, etc.] which activate human peroxisome proliferator activated receptors (PPARs) and are useful for the treatment of associated disorders such as cardiovascular

disease and hypercholesterolemia, were prepared. Thus, reacting 4-[2-(4-{4-(4-methoxyphenyl)-1-piperidinyl}methyl)-2-(4-trifluoromethylphenyl)-1,3-thiazol-5-yl]ethyl]-2-methylphenol

[preparation given] with 2-trichloroacetyl-2-propanol in the presence of NaOH pellets in acetone afforded 69a II. All exemplified compds. I were agonists of

at least one PPAR subtype [no data given].

IT 444113-78-79 R1: MCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

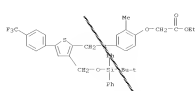
[preparation of thiazole and oxazole derivs. as activators of human peroxisome proliferator activated receptors]

NO 444113-78-7 CAPLUS

CN Acetic acid,

[4-[[[2-[[[1,3,4-dimethyl-2-phenyl-1-oxazolidin-5-yl]-4-[[4-trifluoromethylphenyl]-2-thienyl]thio]-2-methylphenyl]-oxy]methyl]-5-[4-trifluoromethylphenyl]-2-thienyl]thio]-2-methylphenyl]-, ethyl ester (EC) (CA INDEX NAME)

L19 ANSWER 112 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



REFERENCE COUNT: 7

THAT ARE CITED REFERENCES AVAILABLE FOR THIS REFERENCE. ALL CITATIONS AVAILABLE IN THE IE

FORMAT

L19 ANSWER 117 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2002124015 CAPLUS

DOCUMENT NUMBER: 175140869

TITLE: Functionalizable Polycyclic Aromatics through Oxidative Cyclization of Pendant Thiophenes

TOWAR, John D.; ROSE, Almer; SWAGER, Timothy M.

Department of Chemistry and the Center for Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY (2002), 124(25), 7763-7769

DOI: 10.1021/ja020784g

AMERICAN CHEMICAL SOCIETY

LANGUAGE: English

ABSTRACT: We present a general strategy for obtaining large sulfur-mediated

polycyclic

aromatics from thienyl precursors through iron(III) chloride mediated

oxidative cyclizations. By placing thienyl moieties in close proximity

to

adjacent arenes, we have directed the oxidized intermediates into

controlled cyclization pathways, effectively suppressing polymer

formation. Utilizing these cyclized compds. and their thienyl

precursors,

we have studied cyclization/polymerization pathways of polymers such as

poly(2).

The unsubstituted positions *a* to the sulfur atoms within these aromatic

cores allowed for efficient halogenation and further functionalization.

As a demonstration, we prepared a series of arylene-ethynylene polymers

with

varying degrees of chromophore aromatization and used them to probe the

effects of synthetically imposed rigidity on polymer photophysics. Behavior.

The symmetries and effective conjugation pathways within the monomers

play

a key role in determining photophysics. properties. We observed that rigid,

aromatized chromophores generally led to shortened excited-state

lifetimes

by decreasing radiative rates of fluorescence decay.

IT 444922-05-8P R1: PFP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

[functionalizable polycyclic arenes through oxidative cyclization of pendant thiophenes]

NO 444922-05-8 CAPLUS

CN Thiophene, 2,5'-[3,3',4',6'-tetrakis[[2-ethylhexyl]oxy]]-1,1',3',3''-terphenyl]-2',2''-diylbis[5-[[4-(dodecyl)phenyl]ethynyl]- (PCI) (CA INDEX NAME)

L19 ANSWER 117 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

ACCESSION NUMBER: 2002124015 CAPLUS

DOCUMENT NUMBER: 175140869

TITLE: Functionalizable Polycyclic Aromatics through Oxidative Cyclization of Pendant Thiophenes

TOWAR, John D.; ROSE, Almer; SWAGER, Timothy M.

Department of Chemistry and the Center for Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY (2002), 124(25), 7763-7769

DOI: 10.1021/ja020784g

AMERICAN CHEMICAL SOCIETY

LANGUAGE: English

ABSTRACT: We present a general strategy for obtaining large sulfur-mediated

polycyclic

aromatics from thienyl precursors through iron(III) chloride mediated

oxidative cyclizations. By placing thienyl moieties in close proximity

to

adjacent arenes, we have directed the oxidized intermediates into

controlled cyclization pathways, effectively suppressing polymer

formation. Utilizing these cyclized compds. and their thienyl

precursors,

we have studied cyclization/polymerization pathways of polymers such as

poly(2).

The unsubstituted positions *a* to the sulfur atoms within these aromatic

cores allowed for efficient halogenation and further functionalization.

As a demonstration, we prepared a series of arylene-ethynylene polymers

with

varying degrees of chromophore aromatization and used them to probe the

effects of synthetically imposed rigidity on polymer photophysics. Behavior.

The symmetries and effective conjugation pathways within the monomers

play

a key role in determining photophysics. properties. We observed that rigid,

aromatized chromophores generally led to shortened excited-state

lifetimes

by decreasing radiative rates of fluorescence decay.

IT 444922-05-8P R1: PFP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

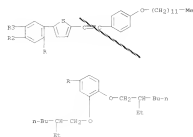
[functionalizable polycyclic arenes through oxidative cyclization of pendant thiophenes]

NO 444922-05-8 CAPLUS

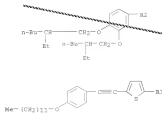
CN Thiophene, 2,5'-[3,3',4',6'-tetrakis[[2-ethylhexyl]oxy]]-1,1',3',3''-terphenyl]-2',2''-diylbis[5-[[4-(dodecyl)phenyl]ethynyl]- (PCI) (CA INDEX NAME)

L19 ANSWER 113 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



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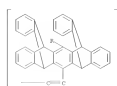
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CH

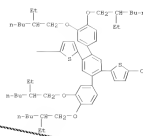
Poly[2,5-thiophenediyl[3,3'',4,4''-tetrakis[1,2-ethylhexyl]oxy][5,1',4',2''-terphenyl]-2'',3'-diyl]-2,5-thiophenediyl-3,2-ethynediyl[5,7,12,14'-tetrahydro-5,14[1'',1',1',7,12[15'',2''-dibenzononapentaene-4,13-diyl]-1,2-ethynediyl] (3C1) (CA INDEX NAME)

L19 ANSWER 113 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 2-A



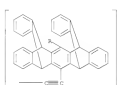
IN 444922-16-1 CAPLUS

CH

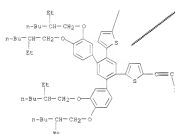
Poly[2,5-thiophenediyl[3,3'',4,4''-tetrakis[1,2-ethylhexyl]oxy][2,4',2',1''-terphenyl]-4',4'-diyl]-5,2-thiophenediyl-3,2-ethynediyl[5,7,12,14'-tetrahydro-5,14[1'',1',1',7,12[15'',2''-dibenzononapentaene-4,13-diyl]-1,2-ethynediyl] (3C1) (CA INDEX NAME)

L19 ANSWER 113 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE FORMAT

L19 ANSWER 114 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002103377 CAPLUS

DOCUMENT NUMBER: 136470226

TITLE: Organic electroluminescent devices containing naphthylthiophenylaminophenylthiophenylthiophene derivatives

INVENTOR(S):

Tetsuoji Totani, Yoshiyuki

Mitsui Chemicals Inc., Japan

Jpn. Kokai Tokkyo Koho, 71 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY NO. NUM. COUNT: 1

PARENT INFORMATION:

PARENT NO. KIND DATE APPLICATION NO. DATE

JP 2002075650 A 20020315 JP 2000-259042 20000929

PRIORITY APPL. INFO.: JP 2000-259042 20000929

OTHER SOURCE(S): MARPAT 136470226

CH

EL: DRV (Device Component use); UNES (Uses)

naphthylthiophenylaminophenylthiophenylthiophene derivatives

naphthylthiophene derivs.

CH 1-Naphthylamine, N-[4-[5-[4-[1,1'-biphenyl]-4-yl]-2-

naphthalenylaminophenyl]-3,4-diphenyl-2-thienyl]phenyl]-8-(5-methoxy-1,1'-

biphenyl]-2-yl)] (3C1) (CA INDEX NAME)

AB The invention relates to an organic electroluminescent device comprising

a pair of electrodes sandwiching a layer(s) containing a general

compound I [Ar1, Ar3 = (un)substituted biphenyl; Ar2, Ar4 =

(un)substituted naphthyl].

IT 401292-80-9

EL: DRV (Device Component use); UNES (Uses)

naphthylthiophenylaminophenylthiophenylthiophene derivatives

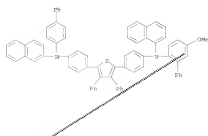
naphthylthiophene derivs.

CH 1-Naphthylamine, N-[4-[5-[4-[1,1'-biphenyl]-4-yl]-2-

naphthalenylaminophenyl]-3,4-diphenyl-2-thienyl]phenyl]-8-(5-methoxy-1,1'-

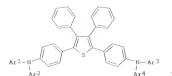
biphenyl]-2-yl)] (3C1) (CA INDEX NAME)

119 ANSWER 114 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



119 ANSWER 115 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002193778 CAPLUS
 DOCUMENT NUMBER: 1361254552
 TITLE: Organic electroluminescent devices containing
 bisphenylaminophenylidiphenylthiophene derivatives
 Nakatsuka, Masahito; Shimamura, Takahiko; Ishida,
 Tetsuo; Tofani, Yoshiyuki
 INVENTOR(S): Mitsui Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 74 pp.
 CIPM: JGGAAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY NO.: NUM. CONT.: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002075649	A	2002/0315	JP 2000-259041	2000/0919
PRIORITY APPL. INFO.			JP 2000-259042	2000/0919
OTHER SOURCE(S):			NAEPAT 1361254552	



AB The invention relates to an organic electroluminescent device comprising

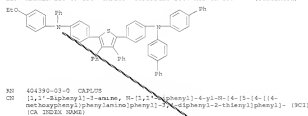
a pair of electrodes sandwiching 21 layer(s) containing 21 general compound 1 [Ar1-2 = (un)substituted biphenyl; Ar3-4 = (un)substituted phenyl].

17 404399-90-4 404399-03-0 404399-10-9
 404399-10-5 404399-10-7 404399-13-8
 404399-22-7 404399-25-6

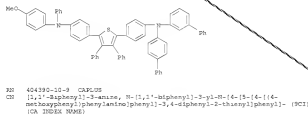
BU: DEV (device component use); USES (Uses)
 (organic electroluminescent devices containing
 bisphenylaminophenylidiphenylthiophene drive.)

IN 404399-90-4 CAPLUS
 CN [1,1'-biphenyl]-4-amine, N-[1,1'-biphenyl]-4-yl-N-[4-[5-[4-[[4-ethoxyphenyl]phenylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI)
 (CA INDEX NAME)

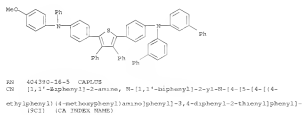
119 ANSWER 115 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



321 404399-03-0 CAPLUS
 CN [1,1'-biphenyl]-3-amine, N-[1,1'-biphenyl]-3-yl-N-[4-[5-[4-[[4-methoxyphenyl]phenylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI)
 (CA INDEX NAME)

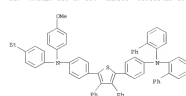


322 404399-10-9 CAPLUS
 CN [1,1'-biphenyl]-3-amine, N-[1,1'-biphenyl]-3-yl-N-[4-[5-[4-[[4-methoxyphenyl]phenylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI)
 (CA INDEX NAME)

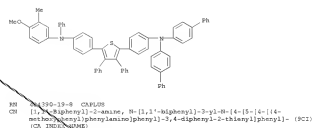


323 404399-16-5 CAPLUS
 CN [1,1'-biphenyl]-2-amine, N-[1,1'-biphenyl]-2-yl-N-[4-[5-[4-[[4-ethoxyphenyl]phenylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI)
 (CA INDEX NAME)

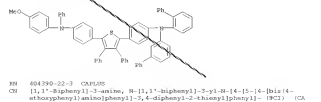
119 ANSWER 115 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



324 404399-18-7 CAPLUS
 CN [1,1'-biphenyl]-4-amine, N-[1,1'-biphenyl]-4-yl-N-[4-[5-[4-[[4-methoxy-3-methylphenyl]phenylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI)
 (CA INDEX NAME)

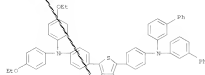


325 404399-19-8 CAPLUS
 CN [1,1'-biphenyl]-2-amine, N-[1,1'-biphenyl]-2-yl-N-[4-[5-[4-[[4-methoxyphenyl]phenylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI)
 (CA INDEX NAME)

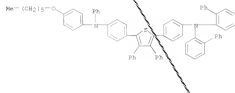


326 404399-22-3 CAPLUS
 CN [1,1'-biphenyl]-3-amine, N-[1,1'-biphenyl]-3-yl-N-[4-[5-[4-[[4-ethoxyphenyl]phenylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI)
 (CA INDEX NAME)

119 ANSWER 116 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

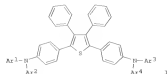


320 404350-23-6 CAPLOS
 CN 1,1'-Biphenyl-2-ylidene, H-[1,3'-biphenyl]-2-yl-D-[4-[3-[4-[4-(4-ethoxyphenyl)phenyl]amino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]-
 (3CI) (CA INDEX NAME)



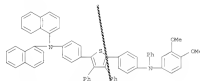
119 ANSWER 116 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002139374 CAPLOS
 DOCUMENT NUMBER: 1361254550
 TITLE: Organic electroluminescent devices containing
 bisnaphthylaminophenylphenylthiophene derivatives
 INVENTOR(S): Nakatsuka, Masahito; Shimamura, Tadahiko; Ishida,
 Tetsuo; Tofani, Yoshiyuki
 SOURCE: Mitsui Chemicals Inc., Japan
 Jpn. Kokai Tokkyo Koho, 24 pp.
 C08K 000000
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY NO., NUM. CONT.: 1
 PATENT INFORMATION: 1

PATENT NO. KIRD DATE APPLICATION NO. DATE
 JP 2002075647 A 20020315 JP 2000-259079 20000819
 PRIORITY APPL. INFO. 1 JP 2000-259079 20000819
 OTHER SOURCE(S): NAKPAT 1361254550

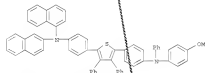


AB The invention relates to an organic electroluminescent device comprising
 a pair of electrodes sandwiching 21 layer(s) containing 21 general
 compound 1 [Ar1-2 = (un)substituted naphthyl; Ar3-4 = (un)substituted
 phenyl].
 IT 404353-80-4 404353-83-9 404353-84-0
 404353-84-4 404353-80-6
 RI: DEV (Device component use); USES (Uses)
 (organic electroluminescent devices containing
 bisnaphthylaminophenyl
 biphenyl derivative.)
 320 404353-80-6 CAPLOS
 CN 1-Naphthalene, H-[4-[5-[4-[1,3,4-dimethoxyphenyl]phenyl]amino]phenyl]-
 3,4-diphenyl-2-thienyl]phenyl]-H-2-naphthalenyl- (3CI) (CA INDEX NAME)

119 ANSWER 116 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

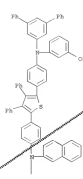


320 404353-83-9 CAPLOS
 CN 1-Naphthalene, H-[4-[5-[4-[4-methoxyphenyl]phenyl]amino]phenyl]-3,4-
 diphenyl-2-thienyl]phenyl]-H-2-naphthalenyl- (3CI) (CA INDEX NAME)



320 404353-84-0 CAPLOS
 CN 1-Naphthalene,
 H-[4-[5-[4-[1,3-ethoxyphenyl] [1,2,3',2''-terphenyl]-5'-
 yl]amino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]-H-2-naphthalenyl- (3CI)
 (CA INDEX NAME)

119 ANSWER 116 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



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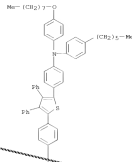
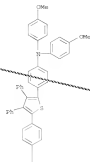
320 404353-86-4 CAPLOS
 CN 1-Naphthalene, H-[4-[5-[4-[4-methoxyphenyl]amino]phenyl]-3,4-
 diphenyl-2-thienyl]phenyl]-H-2-naphthalenyl- (3CI) (CA INDEX NAME)

L19 ANSWER 116 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L19 ANSWER 116 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-A



PAGE 2-A

PAGE 2-A



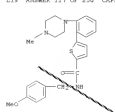
XN 404335-39-6 CAPLUS

CN 3-[Naphthalen-1-yl]-N-[4-{5-[4-(4-methoxyphenyl)-1H-imidazol-2-yl]-2-phenyl}-2-thienyl]phenyl]-N-2-naphthalenyl-1H-imidazole (IC1) (CA INDEX NAME)

L19 ANSWER 117 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L19 ANSWER 117 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

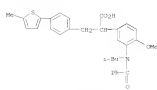
ACCESSION NUMBER: 20021103154 CAPLUS
 DOCUMENT NUMBER: 136126804
 TITLE: Combination, for treating depression and anxiety, containing a 5HT2D receptor antagonist and a CNS penetrant NK-1 receptor antagonist
 INVENTOR(S): Schindl, Christopher Joseph; Seidner-Jaymes, Susan
 PATENT ASSIGNOR(S): Pfizer Products Inc., USA
 SOURCE: Eur. Pat. Appl., 58 pp.
 COUNTRY: EP/KW
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1



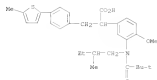
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1186318	A2	20020313	EP 2001-307200	20010824
EP 1186318	A3	20020326		
US 2002042921	A1	20020425	US 2001-847357	20010529
JP 200211153	A	20020425	JP 2001-24426	20010831
CA 2348787	A1	20020305	CA 2001-2348787	20010804
MX 2001PA03993	A	20041130	MX 2001-PA03993	20010905
BR 2001003913	A	20020521	BR 2001-3913	20010905
PRIORITY APPL. INFO.			US 2000-230519	P 20000906

OTHER SOURCE(S): MARKINT 136126804
 AB The present invention relates to a method of treating depression or anxiety in a mammal, including a human, by administering to the mammal a CNS-penetrant NK-1 receptor antagonist (e.g., a substance P receptor antagonist) in combination with a 5HT2D receptor antagonist. It also relates to pharmaceutical compositions containing a pharmaceutically acceptable salt, a CNS-penetrant NK-1 receptor antagonist and a 5HT2D receptor antagonist.
 IT 250383-79-3
 RI: PDC (Pharmacological activity); TRF (Therapeutic use); SIGL (Biological activity); CDS (Class)
 (combination, for treating depression and anxiety, containing a 5HT2D receptor antagonist and a CNS penetrant NK-1 receptor antagonist)
 XN 250383-79-3 CAPLUS
 CN 2-[Naphthalen-1-yl]-N-[4-{5-[4-(4-methoxyphenyl)-1H-imidazol-2-yl]-2-phenyl}-2-thienyl]phenyl]-N-2-naphthalenyl-1H-imidazole (IC1) (CA INDEX NAME)

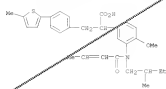
119 ANSWER 118 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



320 400647-03-2 CAPLOS
 C3 Benzenepropionic acid, ω -[3-[(2,2-dimethyl-1-oxo-2-phenylethyl)amino]-4-methoxyphenyl]-4-(5-methyl-2-thienyl)- (PCI) (CA INDEX NAME)

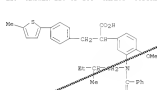


320 400647-11-2 CAPLOS
 C3 Benzenepropionic acid, ω -[4-methoxy-3-[(2-methylbutyl)(1-oxo-2-phenylethyl)amino]phenyl]-4-(5-methyl-2-thienyl)- (PCI) (CA INDEX NAME)



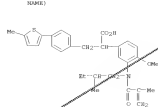
320 400647-19-0 CAPLOS
 C3 Benzenepropionic acid, ω -[4-methoxy-3-[(2-methylbutyl)(2-methyl-1-oxo-2-phenylethyl)amino]phenyl]-4-(5-methyl-2-thienyl)- (PCI) (CA INDEX NAME)

119 ANSWER 118 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

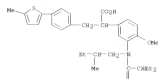


REFERENCE CONT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

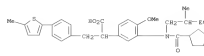
119 ANSWER 118 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



320 400647-27-0 CAPLOS
 C3 Benzenepropionic acid, ω -[3-[(2-methyl-1-oxo-2-phenylethyl)(2-methylbutyl)amino]-4-methoxyphenyl]-4-(5-methyl-2-thienyl)- (PCI) (CA INDEX NAME)



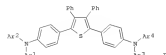
320 400647-35-0 CAPLOS
 C3 Benzenepropionic acid, ω -[3-[(cyclopentylamino)(2-methylbutyl)amino]-4-methoxyphenyl]-4-(5-methyl-2-thienyl)- (PCI) (CA INDEX NAME)



320 400647-43-0 CAPLOS
 C3 Benzenepropionic acid, ω -[3-[(benzyl(2-methylbutyl)amino)-4-methoxyphenyl]-4-(5-methyl-2-thienyl)- (PCI) (CA INDEX NAME)

119 ANSWER 118 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002119114 CAPLOS
 DOCUMENT NUMBER: 136-207491
 TITLE: Organic electroluminescent component
 INVENTOR(S): Nakakura, Masakazu; Ishida, Tetsuo; Shimanaka, Takehiko; Totani, Yoshiyuki
 PATENT ASSIGNOR(S): Mitsui Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 37 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: MINPAT 136-207491
 PATENT NO.:
 KIND DATE APPLICATION NO. DATE
 PRIORITY APPL. INFO.: A 20020222 JP 2000-242477 20000910
 OTHER SOURCE(S): MINPAT 136-207491



AB The invention refers to an organic electroluminescent component comprising at least layer containing one compound of type I (Ar1-3 = biphenyl; Ar4 = unsubstituted Ph or naphthyl) between two electrodes.
 IT 401479-01-0 401479-01-6 401479-01-7 401479-01-8
 401480-01-2 401480-01-3 401480-01-4
 RU INV (inventor component use) USES (uses)
 (organic electroluminescent component)
 RU 401479-01-0 CAPLOS
 CN [1,1'-Biphenyl]-4-amine, N-[1,1'-biphenyl]-4-yl-8-[4-[5-[4-[1,1'-biphenyl]-4-yl]-4-(4-ethoxyphenyl)amino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]- (PCI) (CA INDEX NAME)

L19 ANSWER 119 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

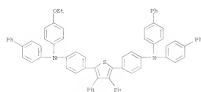


FIG 401479-01-6 CAPLUS
 CH 2-biphenylamine,
 N-[4-{5-[4-{(Me)[1,1'-biphenyl]-4-yl}amino]phenyl}-3,4-
 diphenyl-2-thienyl]phenyl]-N-[5-methoxy[1,1'-biphenyl]-2-yl]- (PCT) (CA
 INDEX NAME)

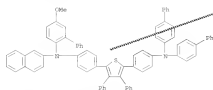


FIG 401479-08-7 CAPLUS
 CH [1,1'-Biphenyl]-3-amine, N-[1,1'-biphenyl]-4-yl-N-[4-[5-[4-[1,1'-
 biphenyl]-4-yl]4-(pentafluorophenyl)amino]phenyl]-3,4-diphenyl-2-
 thienyl]phenyl]- (PCT) (CA INDEX NAME)

L19 ANSWER 119 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

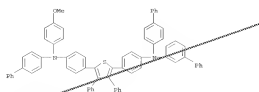


FIG 401480-02-2 CAPLUS
 CH [1,1'-Biphenyl]-3-amine, N-[1,1'-biphenyl]-3-yl-N-[4-[5-[4-[1,1'-
 biphenyl]-4-yl]4-(pentafluorophenyl)amino]phenyl]-3,4-diphenyl-2-
 thienyl]phenyl]- (PCT) (CA INDEX NAME)

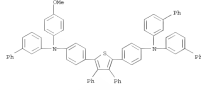
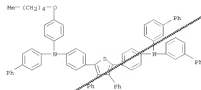
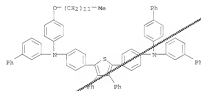


FIG 401480-25-3 CAPLUS
 CH [1,1'-Biphenyl]-3-amine, N-[1,1'-biphenyl]-3-yl-N-[4-[5-[4-[1,1'-
 biphenyl]-4-yl]4-(pentafluorophenyl)amino]phenyl]-3,4-diphenyl-2-
 thienyl]phenyl]- (PCT) (CA INDEX NAME)



L19 ANSWER 119 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

FIG 401480-29-3 CAPLUS
 CH [1,1'-Biphenyl]-3-amine,
 N-[4-{5-[4-[1,1'-biphenyl]-3-yl]2-[1,1'-biphenyl]-4-
 ylamino]phenyl]-3,4-diphenyl-2-thienyl]phenyl]-N-[4-(dodecyl)phenyl]-
 (PCT) (CA INDEX NAME)



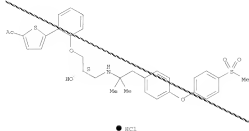
L19 ANSWER 120 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002107327 CAPLUS
 DOCUMENT NUMBER: 136147394
 TITLE: Preparation of carbamate compounds and their use as
 antagonists of a human 11C7 receptor
 INVENTOR(S): Johnson, Christopher Herbert; Jones, Marting O'Toole,
 Catherine Anne; Stamp, Geoffrey; Theiss, Evan
 Michael; Witty, David
 SOURCE: SmithKline Beecham P.L.C., UK
 PCT Int. Appl., 77 pp.
 DOCUMENT TYPE: OTHER: P13022
 LANGUAGE: Patent
 ENGLISH
 FAMILY NO.: NUM. COUNTRY: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002010146	A1	20020207	WO 2001-EP0637	20010726
At, AU, AD, AL, AM, AT, AX, AZ, BA, BB, BG, BY, BE, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, EA, EC, EE, EG, FI, GB, GR, GU, HK, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, MV, MY, NZ, OC, OM, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW				
BM, BR, CH, CN, DE, DK, DM, ES, FI, FR, GB, GR, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, MV, MY, NZ, OC, OM, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW				
CA 2417638	A1	20020207	CA 2001-2417638	20010726
EP 1305304	A1	20020502	EP 2001-95562	20010726
FI, IT, BE, CH, DE, DK, ES, FI, FR, GB, GR, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, MV, MY, NZ, OC, OM, PA, PE, PG, PH, PK, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW				
BR 2002012856	A	20020701	BR 2001-12856	20010726
BR 200203266	A2	20021229	BR 2002-266	20010726
JP 200405070	7	20040219	JP 2002-51877	20010726
IN 20030901683	A	20040211	IN 2002-801581	20010726
SA 2003000262	A	20040413	SA 2003-262	20010726
WO 2003060471	A	20030328	WO 2003-471	20010726
MX 20030900223	A	20030609	MX 2003-P0223	20010726
SG 107810	B2	20030930	SG 2003-107810	20010726
US 2004042686	A1	20040421	US 2002-14144	20010726
PRIORITY APPL. INFO.:				
			GB 2001-12544	A 20010523
			WO 2001-EP0637	H 20010726

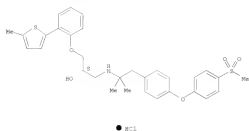
OTHER SOURCE(S): MARPAT 136167294
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119 ANSWER 121 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)



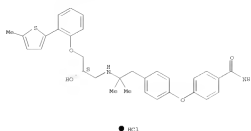
XX 391925-51-2 CAPLOS
CN 2-Propanol,
1-[[1,1-dimethyl-2-(4-{4-(methylsulfonyl)phenoxy}phenyl)ethoxy]-5-(1-methyl-2-thienyl)phenyl]-, hydrochloride, (2S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



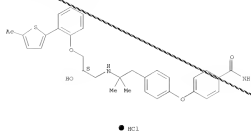
XX 391925-81-8 CAPLOS
CN Benzanide, 4-{4-[2-[[2S]-2-hydroxy-3-[2-(5-methyl-2-thienyl)phenoxy]propyl]amino]-2-methylpropyl]phenoxy}-, monohydrochloride (9CI) (CA INDEX NAME)

119 ANSWER 121 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)
Absolute stereochemistry.



XX 391925-83-0 CAPLOS
CN Benzanide, 4-{4-[2-[[2S]-2-hydroxy-3-[2-(5-methyl-2-thienyl)phenoxy]propyl]amino]-2-methylpropyl]phenoxy}-, monohydrochloride (9CI) (CA INDEX NAME)

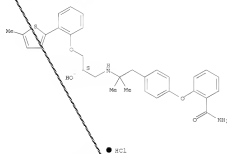
Absolute stereochemistry.



XX 391925-86-3 CAPLOS
CN Benzanide, 4-{4-[2-[[2S]-2-hydroxy-3-[2-(5-methyl-2-thienyl)phenoxy]propyl]amino]-2-methylpropyl]phenoxy}-, monohydrochloride (9CI) (CA INDEX NAME)

119 ANSWER 121 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

Absolute stereochemistry.



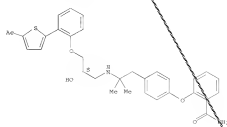
XX 391925-90-9 CAPLOS
CN Benzanide, 4-{4-[2-[[2S]-2-hydroxy-3-[2-(5-methyl-2-thienyl)phenoxy]propyl]amino]-2-methylpropyl]phenoxy}-, monohydrochloride (9CI) (CA INDEX NAME)

CN 2

CNF 391925-89-5

CNF C52 B14 M2 G5 8

Absolute stereochemistry.



119 ANSWER 121 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

CN 2

CNF 76-05-1

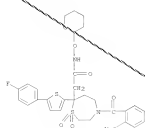
CNF C2 B B3 C2



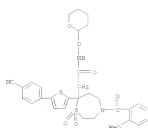
REFERENCE COUNT:
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13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR
RECORD. ALL CITATIONS AVAILABLE IN THE SE
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1,19 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

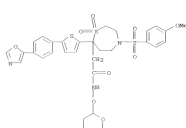


355842-97-6 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, 7-[[5-(4-oxo-2-phenyl-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI)
 (CA INDEX NAME)

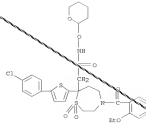


355843-16-2 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, hexahydro-4-[(4-methoxyphenyl)sulfonyl]-7-[5-[4-[[3-oxo-1-phenyl-1,2-thienyl]-5-[[tetrahydro-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

1,19 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

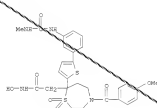


355843-49-1 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, 7-[[5-(4-chlorophenyl)-2-thienyl]-4-(2-ethoxybenzoyl)hexahydro-8-[[tetrahydro-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

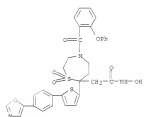


355844-41-6 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, 7-[[5-[[[1-methyl-1H-imidazol-2-ylidene]phenyl]-2-thienyl]-4-(2-ethoxybenzoyl)hexahydro-8-[[tetrahydro-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

1,19 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

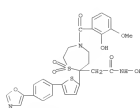


355844-47-2 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, hexahydro-8-hydroxy-4-[[12-methoxyphenyl]amino]oxy-7-[5-[4-[[5-oxo-2-phenyl-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

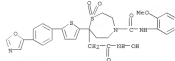


355844-48-3 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, hexahydro-8-hydroxy-4-(2-hydroxy-3-methoxybenzoyl)-7-[5-[4-[[5-oxo-2-phenyl-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

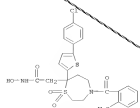
1,19 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



355844-65-4 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, hexahydro-8-hydroxy-4-[[12-methoxyphenyl]amino]oxy-7-[5-[4-[[5-oxo-2-phenyl-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

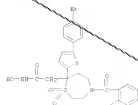


355845-06-6 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, 7-[[5-(4-chlorophenyl)-2-thienyl]hexahydro-8-hydroxy-4-(2-methoxybenzoyl)-7-[5-[4-[[5-oxo-2-phenyl-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

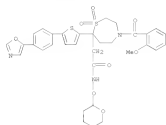


355845-27-3 CAPLUS
 CH 1,4-Thiazepine-7-acetamide, 7-[[5-(4-ethylphenyl)-2-thienyl]hexahydro-8-hydroxy-4-(2-methoxybenzoyl)-7-[5-[4-[[5-oxo-2-phenyl-2H-pyran-2-yl)oxy]-1,1-dioxido] (PCI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
hydroxy-4-(2-methoxybenzoyl)-, 1,1-dioxide (PCI) (CA INDEX NAME)

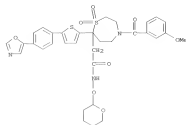


XX 355845-42-0 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-4-(2-methoxybenzoyl)-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

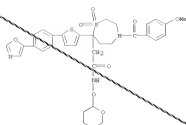


XX 355845-43-1 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-4-(3-methoxybenzoyl)-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

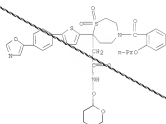


XX 355845-44-2 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-4-(4-methoxybenzoyl)-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

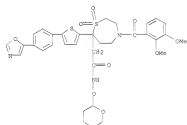


XX 355845-52-2 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-4-(2-propoxybenzoyl)-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

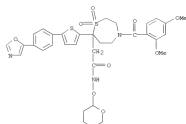


XX 355845-63-3 CAPLOS
CN 1,4-Thiazepine-7-acetamide, 6-(2,3-dimethoxybenzoyl)hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

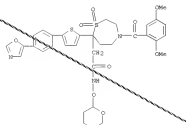


XX 355845-84-6 CAPLOS
CN 1,4-Thiazepine-7-acetamide, 6-(2,4-dimethoxybenzoyl)hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

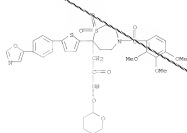


XX 355845-69-1 CAPLOS
CN 1,4-Thiazepine-7-acetamide, 6-(2,5-dimethoxybenzoyl)hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (PCI) (CA INDEX NAME)

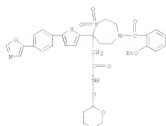


XX 355845-70-4 CAPLOS
CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-8-[(tetrahydro-2H-pyran-2-yl)oxy]-4-(2,3,4-trimethoxybenzoyl)-, 1,1-dioxide (PCI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

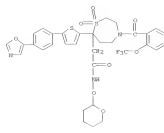


XX 355845-72-6 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 4-[2-ethoxybenzoyl]hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (9CI) (CA INDEX NAME)

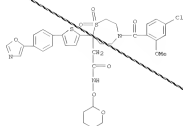


XX 355845-73-7 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-4-[2-(trifluoromethoxy)benzoyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

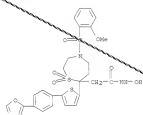


XX 355845-75-5 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 4-[4-chloro-2-methoxybenzoyl]hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (9CI) (CA INDEX NAME)

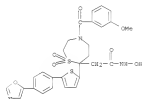


XX 355846-00-3 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-4-[2-(4-chlorophenyl)-2-thienyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

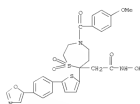


XX 355846-01-4 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-4-[2-(4-chlorophenyl)-2-thienyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

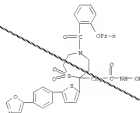


XX 355846-02-5 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-4-[2-(4-chlorophenyl)-2-thienyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

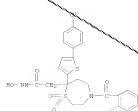


XX 355846-10-5 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-4-[2-(4-chlorophenyl)-2-thienyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

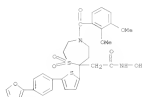


XX 355846-18-3 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 7-[5-[4-chlorophenyl]-2-thienyl]-4-[2-(4-chlorophenyl)-2-thienyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-, 1,1-dioxide (9CI) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

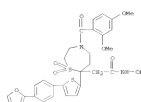


221 355846-52-3 CAPLUS
CN 1,4-Thiazepine-7-acetamide, 4-[(2,4-dimethoxybenzoyl)hexahydro-N-hydroxy-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)

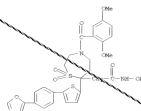


221 355846-53-6 CAPLUS
CN 1,4-Thiazepine-7-acetamide, 4-[(2,4-dimethoxybenzoyl)hexahydro-N-hydroxy-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

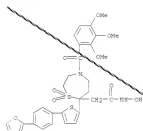


221 355846-73-2 CAPLUS
CN 1,4-Thiazepine-7-acetamide, 4-[(2,4-dimethoxybenzoyl)hexahydro-N-hydroxy-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)

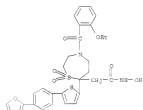


221 355846-76-3 CAPLUS
CN 1,4-Thiazepine-7-acetamide, hexahydro-N-hydroxy-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-4-[(2,4-dimethoxybenzoyl)-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

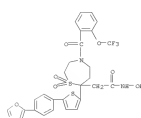


221 355846-79-3 CAPLUS
CN 1,4-Thiazepine-7-acetamide, 4-[(2-ethoxybenzoyl)hexahydro-N-hydroxy-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)

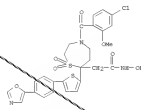


221 355846-79-6 CAPLUS
CN 1,4-Thiazepine-7-acetamide, hexahydro-N-hydroxy-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-4-[2-(trifluoromethyl)benzoyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)

119 ANSWER 125 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



221 355846-81-0 CAPLUS
CN 1,4-Thiazepine-7-acetamide, 4-[(4-chloro-2-methoxybenzoyl)hexahydro-N-hydroxy-7-[5-[4-(5-oxazolyl)phenyl]-2-thienyl]-, 1,1-dioxide (9C1) (CA INDEX NAME)



221 355846-91-2 CAPLUS
CN 1,4-Thiazepine-7-acetamide, 7-[5-[4-(4-fluorophenyl)-2-thienyl]hexahydro-N-hydroxy-4-(2-methoxybenzoyl)-, 1,1-dioxide (9C1) (CA INDEX NAME)

L19 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

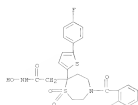


FIG 355945-95-6 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, 7-[5-[4-(cyanophenyl)-2-thienyl]hexahydro-H-
 ydrazo-4-(1-methylphenyl)-1,1-dioxide (PCT) (CA INDEX NAME)

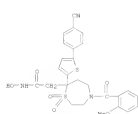


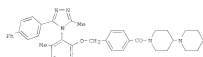
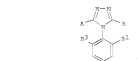
FIG 355947-76-6 CAPLOS
 CN 1,4-Thiazepine-7-acetamide, hexahydro-H-hydrazo-4-[[4-(
 methoxyphenyl)acetyl]-7-[5-[4-(1-methoxyphenyl)phenyl]-2-thienyl]-,
 1,1-dioxide (PCT) (CA INDEX NAME)

L19 ANSWER 126 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)
 ACCESSION NUMBER: 2001150798 CAPLOS
 DOCUMENT NUMBER: 135130769
 TITLE: Preparation of novel triazole derivatives as arginine
 vasopressin receptor antagonists
 INVENTOR(S): Suzuki, Takahiko; Tobe, Takahiko; Murakami, Takashi;
 Tahara, Akiyo
 PATENT ASSIGNER(S): Vanooseh Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 42 pp.
 CODES: P13X52
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 200100880	A1	20010816	MO 2000-09468	20000208
US, AE, AL, AM, AT, AU, BE, BR, BY, CA, CH, CN, CO, CU,				
DE, DK, DM, ES, FR, GB, GR, HU, IL, IN, JP, KR, LI, LU,				
MC, MD, ME, MG, MK, MN, MU, NL, NO, NZ, PL, PT, RO, RU,				
SE, SI, SK, TH, TR, TT, UA, US, UZ, VE, VN, YU, ZA, ZM, ZW,				
AE, BY, BG, BR, DE, DK, ES, FI, FR, GB, GR, HU, IL, IN, JP,				
KR, MC, MD, ME, MG, MN, MU, NL, NO, NZ, PL, PT, RO, RU,				
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DE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, MC, NL, PT, SE,				
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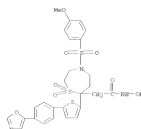
PRIORITY APPL. INFO: MO 2000-09468 20000208

CITE SOURCE(S): MANPAT 135130769
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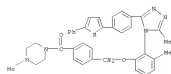
11

L19 ANSWER 125 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE 12
 FORMAT

L19 ANSWER 126 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)
 AB Title compds. [1] R = H, CH₃, CH(CH₃), CH(CH₃)CH₃; R1 = H, OCH₃, OCH(CH₃),
 CH₃, CH₂, CH, CH, CH(CH₃)₂, heterocycloalkoxy,
 heterocycloalkylphenylbenzyl; R2 = H, CH₃; A = 4-CH₃CH₂CH₂,
 4-(2-CH₃CH₂CH₂CH₂CH₂)CH₂, 4-(2-CH₃CH₂CH₂CH₂CH₂)CH₂ and pharmaceutically
 acceptable salts thereof are prepared as arginine vasopressin (AVP)
 receptor
 antagonists. Title compds. 1 are tested for AVP (arginine vasopressin)
 inhibitory effect with pK_i = 6.0-9.1. Thus, the title compound II was
 prepared.
 IT 354799-47-6P
 AL: BMC (Biological activity or effector, except adverse); BSU
 (Biological
 study; unclassified); SPB (Synthetic preparation); SIOG (Biological
 study); PREP (Preparation)
 [Preparation of triazole deriv. as arginine vasopressin receptor
 antagonists]
 NN 354799-47-6 CAPLOS
 CN Piperazine, 1-methyl-4-[4-[3-methyl-2-[3-methyl-1-[4-[5-phenyl-2-
 thienyl]phenyl]-4R-1,2,4-triazol-6-yl]phenoxymethyl]benzoyl]- (PCT) (CA
 INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE 12
 FORMAT

119 ANSWER 127 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

MOLECULAR RECOGNITION: STUDIES ON THE SYNTHESIS OF
SOME BIS-THIOPHENE CARBOXAMIDE DERIVATIVES AS DITOPIC
RECEPTORS FOR LONG CHAIN DIACARBOXYLIC ACIDS
Raj, J. K.; Gupta, S.; Ray, D.; Kar, G. K.
Journal of Chemistry, Indian Institute of
Technology, Kharagpur, 721302, India
Tetrahedron 120011, 41(19), 1213-1219
CODEN: TETRAA 1999: 0040-4020

PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI

C₁₈H₁₂O₂S₂
Skeletal no.



AB New mol. receptors 1 (R = Bu, 2-Py, 2-MeO-Ph, and R = O, S) with di-Ph
ether/di-Ph sulfide as spacer having functional groups complementary to
long chain dicarboxylic acids were developed. Binding studies with
different dicarboxylic acids showed high association constants, with
receptor 2

(R = Bu and R = O, S).

IT 372111-21-3 372111-21-3P

RI: SPH (Synthetic preparation); FRP (Preparation)

Preparation of bis-thiophene carboxamide ditopic receptors and lack of

mol. recognition of dicarboxylic acids

RI 372111-21-2 CAPLUS

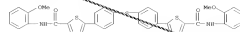
CR 2-Thiophenecarboxamide,
5,5'-(oxybis(4,1-phenylene))bis[1-(2-methoxyphenyl)]-
(9CI) [CA INDEX NAME]



RI 372111-21-3 CAPLUS

CR 2-Thiophenecarboxamide,
5,5'-(thiodi-4,1-phenylene))bis[1-(2-methoxyphenyl)]-

119 ANSWER 127 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(CI) (CA INDEX NAME)



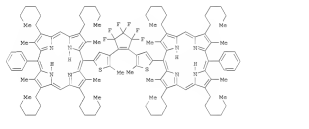
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE ON THE SE

FORMAT

119 ANSWER 128 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

Synthesis and Photoisomerization of
Dithienylethene-Bridged Diporphyrins
Okada, Atsuhiko; Fujikawa, Daiichi; Shimizu,
Hiroyuki; Kobayashi, Satoru; Irie, Masahiko
Department of Chemistry Graduate School of Science,
Kyoto University and CREST Japan Science Technology
Corporation (JST), Kyoto, 606-8502, Japan
Journal of Organic Chemistry 120011, 66(11),
CODEN: JOCHAH 1999: 0022-3263

PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI

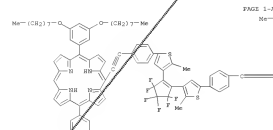


AB Dithienylethene-bridged diporphyrins, e.g. 1, were prepared as photochem.
switching mole. The close attachment of the porphyrin chromophore to the
dithienylethene led to the loss of their photochromic reactivity, and
therefore some examples did not undergo any photochem. isomerization,
probably due to efficient quenching of the excited dithienylethene by the attached
diporphyrin moiety via intramol. energy transfer. The pertinent
insertion of a spacer between the dithienylethene and porphyrin moieties
allowed two examples to undergo open-to-closed and closed-to-open
photoisomerizations in quantum yields of 4.3 x 10⁻² and 1.8 x
10⁻³, and 2.6 x 10⁻³ and 7.5 x 10⁻⁴, resp., by irradiation with
311 and 625 nm light, which are considerably smaller than quantum yields
of 0.51 and 2.8 x 10⁻³ for a reference dithienylethene. The fluorescence
of one example was regulated in a reversible manner by the
photoisomerization of the dithienylethene moiety. In addition, the
absorption properties of the porphyrin in another example changed in
response to the photochromic reaction of the dithienylethene bridge.

IT 346838-95-9
RI: FRP (Properties); RPH (Synthetic preparation); FRP (Preparation)

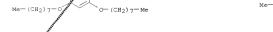
119 ANSWER 128 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(Synthesis and photoisomerization of dithienylethene-bridged

diporphyrins)
RI 346838-95-9 CAPLUS
CR 218,238-Porphine, 5,5'-[(3,3',4,4',5,5'-hexafluoro-1-cyclopentene-1,2-
diyl)bis(5-methyl-4,2-thiophenediyl)]-4,1-phenylene-2,1-
ethylenediyl]bis[10,20-bis(3,5-bis(oxymethyl)phenyl)-] (9CI) [CA INDEX
NAME]



PAGE 1-A

Me-



PAGE 1-B



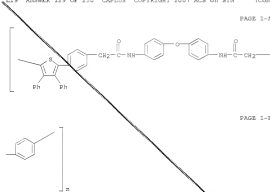
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE ON THE SE

FORMAT

L19 ANSWER 128 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L19 ANSWER 129 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:872024 CAPLUS
 DOCUMENT NUMBER: 134147552
 TITLE: Synthesis and characterization of aromatic-aliphatic polyamides
 AUTHOR(S): Shale, V. P.; Sagar, A. D.; Moidar, M. N.; Riazkhat, M. V.
 CORPORATE SOURCE: Chemistry Department, Shivaji University Centre for Post-Graduate Studies, Solapur, 413 003, India
 SOURCE: Journal of Applied Polymer Science (2000), Volume 76(1), 7913, 544-571
 DATE: CORDI: JAPR04; JSPR: 0001-8955
 PUBLISHER: John Wiley & Sons, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: A new monomer, 2,5-bis(4-carboxy methylene phenyl)-1,4-diphenyl thiophene (V) has been synthesized and characterized by phys. and spectroscopic methods. A series of eight aromatic-aliphatic polyamides was prepared from the (V) and different aromatic diamines using Yamashita's direct phosphorylation reaction. The polyamides were characterized by IR spectroscopy, measurements, and thermal anal. An excellent yield of these polyamides was obtained, with inherent viscosities in the range of 0.28 to 0.67 dl/g, and the polyamide were readily soluble in aprotic polar solvents such as N-methyl-2-pyrrolidone, N,N-di-Me acetamide, DMSO, and so forth. Polyamides could be cast into transparent and flexible films. They had glass transition temps. of 225-277°C. When evaluated by thermogravimetry, thermal anal. of the polyamides showed no weight loss below 311°C, and the char yield in air at 500°C was 55-67%. The structure-property correlation among these polyamides is also discussed.
 IT 324078-29-79
 RI: P30 (Preparation); SRI (Synthetic preparation); PREP (Preparation) (synthesis and characterization of aromatic-aliphatic polyamides)
 RI 324078-29-7 CAPLUS
 CB Poly[1,4-diphenyl-2,5-thiophenediyl-1,4-phenylene (2-oxo-1,2-ethanediy)imino-1,4-phenyleneoxy-1,4-phenylenesulfonyl-2-oxo-1,2-ethanediy)imino-1,4-phenylene] (PCI) (CA INDEX NAME)

L19 ANSWER 129 OF 210 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



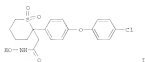
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L19 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:475458 CAPLUS
 DOCUMENT NUMBER: 133104564
 TITLE: Preparation of tetrahydro-2H-thiopyran-1,1-dioxanes as inhibitors of matrix metalloproteinases or tumor necrosis factor- α
 INVENTOR(S): Taniguchi, Kiyoshi; Naya, Masahiro; Terazawa, Yoshiaki; Itohashi, Sato; Komuro, Ryoji; Kuni, Toshikazu; Kuroki, Yoshiko; Nishio, Shunji; Yoshimura, Takasumi; Hasegawa, Tetsuo; Hiyokawa, Fujisawa Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 336 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY NO. MEM. COUNTRY: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000042576	A2	20000713	WO 2000-3918	20000106
WO 2000042576	A3	20010212		
US 2001019055	A1	20000713	CA 2000-2357874	20000106
US 759900	B2	20010501		
EP 1140895	A2	20011010	EP 2000-900122	20000106
EP 1140895	B1	20040224		
AT 417, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE, MC, PT, IE, SI, LV, FI, RO				
TR 200101996	T2	20011221	TR 2001-1936	20000106
BR 200000489	A	20000219	BR 2000-489	20000106
BR 200104859	A2	20011028	BR 2001-489	20000106
RU 2213792	C2	20040110	RU 2001-121981	20000106
KY 262517	7	20040415	KY 2000-900122	20000106
JP 2213963	T2	20040901	JP 2000-900122	20000106
MX 2001PA046896	A	20020604	MX 2001-84896	20010705
PRIORITY APPL. INFO.: 1				
NO 1998-0060	A	1998-0060		
AU 1998-1782	A	1998-1782		
WO 2000-3918	W	2000-3918		

OTHER SOURCE(S): MARIAT 133104564
 GI

L19 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



II

AB The title compds. (I) [wherein R¹ = alkyl, halogen, (un)substituted heterocycle or aryl; R² = (protected or unmasked) carboxy; Ar = (un)substituted aryl; heterocyclic R = alkylene; X = O or a single bond;

T = S, S(O), or SO₂; Z = methylene, S, O, or SO₂; m and n = independently

0-4, and 1 or more ≤ 6; and their salts were prepared by addition reactions of alkyl or aryl halides with tetrahydro-2H-thiopyran and subsequent oxidation to form the 1,1-dioxides. For example, it was epoxidized in a multi-step sequence involving (1) etherification of 3,4,5,6-tetrahydro-2-(4-hydroxyphenyl)-2H-thiopyran (preparation given)

with 4-bromochlorobenzene, (2) addition of tert-Bu bromoacetate, (3) formation of

the 1,1-dioxides using oxone, (4) deesterification with CF₃COOH, and (5) reduction of the acid with hydroxylammonium chloride. In an *in vitro* assay, it suppressed matrix metalloproteinase 13 (MMP-13) activity with IC₅₀ of 1.2 μM. It was useful for the treatment and/or prevention of diseases such as stroke, arthritis, obesity, tissue fibrosis, osteoporosis, retinopathy, periodontal disease, epidermolysis bullosa, scleritis, psoriasis, and other diseases characterized by MMP activity, as well as AIDS, sepsis, septic shock, and other diseases caused by the production of TGF-β (see data).

II 201112-91-89 201113-91-99 201113-94-19

201113-95-29 201113-48-99 201113-56-99

201113-58-09 201113-59-19 201113-91-79

201114-04-99 201114-09-49 201114-20-99

201114-71-49 201114-81-99 201113-52-09

201113-41-59 201113-49-99 201113-80-29

SI: PAC (Biological activity or effector, except adverse); RSU

(biological) study, unclassified); SPH (Synthetic preparation); THO (Therapeutic use); SGL (Biological study); PRF (Preparation); DBS (Data)

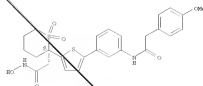
L19 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

[prepn. of tetrahydro-2H-thiopyran 1,1-dioxides as NMP or THF & inhibitors by addn. reactions of alkyl or aryl halides with tetrahydro-2H-thiopyran and subsequent oxidn. to form 1,1-dioxides]

HN 201112-91-8 CAPLUS

CN 28-Thiopyran-2-acetamide, tetrahydro-8-hydroxy-2-[5-[3-[[[4-methoxyphenyl]acetyl]amino]phenyl]-2-thienyl]-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

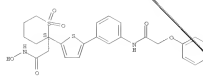
Absolute stereochemistry.



HN 201112-92-9 CAPLUS

CN 28-Thiopyran-2-acetamide, tetrahydro-8-hydroxy-2-[5-[3-[[[3-methoxyphenyl]acetyl]amino]phenyl]-2-thienyl]-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

Absolute stereochemistry.



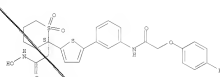
HN 201112-94-1 CAPLUS

CN 28-Thiopyran-2-acetamide, 2-[5-[3-[[[4-fluorophenyl]acetyl]amino]phenyl]-2-thienyl]tetrahydro-8-hydroxy-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

Absolute stereochemistry.



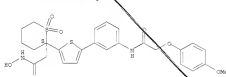
L19 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



HN 201112-95-2 CAPLUS

CN 28-Thiopyran-2-acetamide, tetrahydro-8-hydroxy-2-[5-[3-[[[4-methoxyphenyl]acetyl]amino]phenyl]-2-thienyl]-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

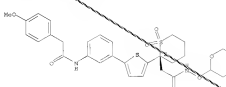
Absolute stereochemistry.



HN 201113-48-8 CAPLUS

CN 28-Thiopyran-2-acetamide, tetrahydro-2-[5-[3-[[[4-methoxyphenyl]acetyl]amino]phenyl]-2-thienyl]-8-[[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

Absolute stereochemistry.

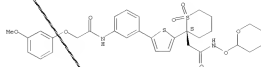


HN 201113-54-8 CAPLUS

CN 28-Thiopyran-2-acetamide, tetrahydro-2-[5-[3-[[[3-methoxyphenyl]acetyl]amino]phenyl]-2-thienyl]-8-[[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

L19 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

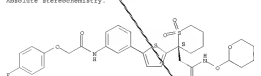
Absolute stereochemistry.



HN 201113-59-0 CAPLUS

CN 28-Thiopyran-2-acetamide, 2-[5-[3-[[[4-fluorophenyl]acetyl]amino]phenyl]-2-thienyl]tetrahydro-8-[[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

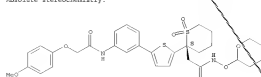
Absolute stereochemistry.



HN 201113-59-1 CAPLUS

CN 28-Thiopyran-2-acetamide, tetrahydro-2-[5-[3-[[[4-methoxyphenyl]acetyl]amino]phenyl]-2-thienyl]-8-[[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

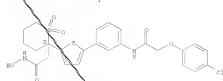
Absolute stereochemistry.



HN 201113-91-7 CAPLUS

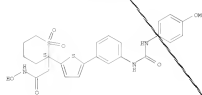
CN 28-Thiopyran-2-acetamide, 2-[5-[3-[[[4-chlorophenyl]acetyl]amino]phenyl]-2-thienyl]tetrahydro-8-hydroxy-, 1,1-dioxides, (2S)- (9CI) (CA INDEX NIMS)

119 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Absolute stereochemistry.



HN 282114-04-9 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-8-hydroxy-2-[5-[3-[[[4-methoxyphenyl]amino]acetyl]amino]phenyl]-2-thienyl]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

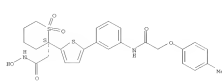


HN 282114-04-4 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-8-hydroxy-2-[5-[3-[[[4-methoxyphenyl]amino]acetyl]amino]phenyl]-2-thienyl]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

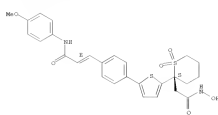


119 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



HN 282114-20-3 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-8-hydroxy-2-[5-[4-[[[11E]-3-[[4-methoxyphenyl]amino]-5-oxo-1-propenyl]phenyl]-2-thienyl]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

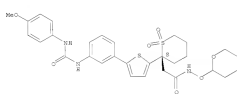


HN 282114-77-6 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-2-[5-[3-[[[4-methoxyphenyl]amino]acetyl]amino]phenyl]-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

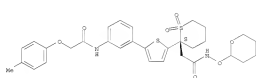


119 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



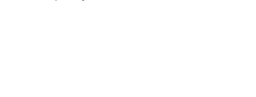
HN 282114-87-3 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-2-[5-[3-[[[4-methoxyphenyl]amino]acetyl]amino]phenyl]-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

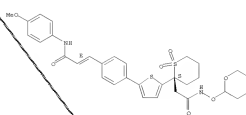


HN 282115-02-0 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-2-[5-[4-[[[11E]-3-[[[4-methoxyphenyl]amino]-3-oxo-1-propenyl]phenyl]-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

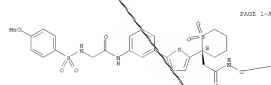


119 ANSWER 130 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



HN 282115-49-5 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-2-[5-[3-[[[4-methoxyphenyl]amino]acetyl]amino]phenyl]-2-thienyl]-8-[[tetrahydro-2H-pyran-2-yl]oxy]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



PAGE 3-A



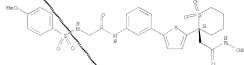
PAGE 3-B

HN 282115-68-8 CAPLUS
CN 28-Thiopyran-2-acetamide, tetrahydro-8-hydroxy-2-[5-[3-[[[4-methoxyphenyl]amino]acetyl]amino]phenyl]-2-thienyl]-, 1,3-dioxide, (2S)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

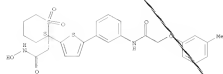


L19 ANSWER 139 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



22 250115-98-2 CAPLUS
 CN 2,6-Thiopyran-3-one analog, tetrahydro-N-hydroxy-2-[5-[3-[[1-(3-methylphenyl)acetyl]amino]phenyl]-2-thienyl]-, 1,1-dioxane, (2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 131 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:457923 CAPLUS
 DOCUMENT NUMBER: 13119729
 TITLE: Redox States of Well-Defined α -Conjugated Oligothiophenes Functionalized with Poly(benzyl ether)

AUTHOR(S): Henderson
 Agaplen, John J.; Jansson, Eric A. J.; Malenfant, Patrick E. L.; Groenendaal, Lambertus; Frenseth, Jean M. J.

CORPORATE SOURCE: Laboratory for Macromolecular and Organic Chemistry, Katholien University of Technology, Katholien, 5400 NY, Belg.

SOURCE: Journal of the American Chemical Society (2000), 122(19), 5452-5051

ORDR: JACMAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The redox states of a series of well-defined hybrid dendrimers based on oligothiophene cores and poly(benzyl ether) dendrons have been studied using cyclic voltammetry and variable-temperature UV/visible near-IR spectroscopy. The oxidation potentials and the electronic transitions of the neutral, singly oxidized, and doubly oxidized states of these novel hybrid materials have been determined as a function of oligothiophene composition.

length varying between 4 and 17 repeat units. The attachment of poly(benzyl ether) dendritic wedges at the termini of these lengthy oligothiophenes considerably enhances their solubility. This enabling the first

detailed investigation of the electronic structure of oligothiophenes having 11 and 17 repeat units with minimal β -substitution. In the case of the undecamer and heptadecamer, we find that the dicationic state consists of two individual polarons, rather than a single bipolaron. The effect of the dendritic poly(benzyl ether) solubilizers on the properties of the redox states varies with the oligothiophene length and dendron size. More specifically, we observe a kinetic limit to the electrochem. oxidation of the oligothiophene core when the dendron is large compared

to the electrophore. Finally, we have observed the first example of self-complexation of cation radicals via π -dimerization leading to the formation of dendritic supramol. assemblies.

IT 288840-98-0P

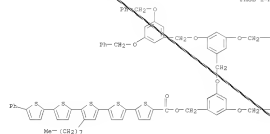
NU: PRE (Preparation); SYN (Synthetic preparation); PREP (Preparation) (redox states of α -conjugated oligothiophenes functionalized with poly(benzyl ether) dendrons)

22 288840-98-0 CAPLUS

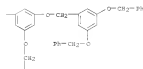
CN [2,2'-(5,5'-bis(2,2'-(1,3,5-trimethyl-4-quinquephenylene)-5-carboxylic acid, 4'-(4-oxo-1,3,5-trimethyl-phenyl)-[1,3-bis(1,3-bis(1,3-bis(phenylmethoxy)phenyl)methoxy)phenyl)methoxy]methyl ester (9CI) (CA INDEX NAME)

L19 ANSWER 131 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



L19 ANSWER 131 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A



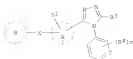
PAGE 2-B



REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

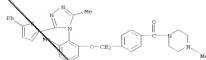
AL19 ANMMER 12Z OFO CARLOS COPYRIGHT 2007 ACS on STM
ACCESSION NUMBER: 2000:136274 CARLOS
DOCUMENT NUMBER: 132:166298
TITLE: Preparation of triazoles as arginine vasopressin V1
receptor antagonists, and pharmaceuticals contain-
ing them
INVENTOR(S): Suzuki, Takeshi; Dobe, Takahiko; Murahata, Takeshi;
Tabata, Atsuo
PATENT APPLICATION(S): Yokouchi, Kazumasa; Kato, K. Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CLASS. YC00A04
LANGUAGE: Japanese
FAMILY AC. DIV. COUNTRY: 1
ALUSZG INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000067163	A	20000529	JP 1998-228403	19980812
PRIORITY APPLN. INFO.:			JP 1998-228403	19980812
OTHER SOURCE(S):				
GI		MANUAT 132:166239		



A Triazoles 1 [1] A-4 benzene or thiophene ring, ring B -
 R¹ = alkyl, R² = H, halo, NO₂, Me₂N, lower alkyl; R³ = alkyl, halo, CN,
 CF₃, NO₂, R⁴ = H, halo, alkyl, aryl, nitr, R⁵ = H, lower alkyl, halo,
 haloalkyl, alkylthio, halo, amino, cyano, trihalomethyl, nitr, X =
 bond,
 n, m, l, k, o, p, q, r, s, t = 0-3 or their salts, useful for treatment of diabetic
 neuropathy, are prepared to 1-(4'-thienyl)-3',4'-diazole was treated
 with
 o-nitroanisole at 150° for 12 h to give 1-(4'-thienyl)-3',4'-diazole
 (2) (R¹ = H, R² = H, R³ = H, R⁴ = H, R⁵ = H, R⁶ = H, R⁷ = H, R⁸ = H, R⁹ = H, R¹⁰ = H, R¹¹ = H, R¹² = H, R¹³ = H, R¹⁴ = H, R¹⁵ = H, R¹⁶ = H, R¹⁷ = H, R¹⁸ = H, R¹⁹ = H, R²⁰ = H, R²¹ = H, R²² = H, R²³ = H, R²⁴ = H, R²⁵ = H, R²⁶ = H, R²⁷ = H, R²⁸ = H, R²⁹ = H, R³⁰ = H, R³¹ = H, R³² = H, R³³ = H, R³⁴ = H, R³⁵ = H, R³⁶ = H, R³⁷ = H, R³⁸ = H, R³⁹ = H, R⁴⁰ = H, R⁴¹ = H, R⁴² = H, R⁴³ = H, R⁴⁴ = H, R⁴⁵ = H, R⁴⁶ = H, R⁴⁷ = H, R⁴⁸ = H, R⁴⁹ = H, R⁵⁰ = H, R⁵¹ = H, R⁵² = H, R⁵³ = H, R⁵⁴ = H, R⁵⁵ = H, R⁵⁶ = H, R⁵⁷ = H, R⁵⁸ = H, R⁵⁹ = H, R⁶⁰ = H, R⁶¹ = H, R⁶² = H, R⁶³ = H, R⁶⁴ = H, R⁶⁵ = H, R⁶⁶ = H, R⁶⁷ = H, R⁶⁸ = H, R⁶⁹ = H, R⁷⁰ = H, R⁷¹ = H, R⁷² = H, R⁷³ = H, R⁷⁴ = H, R⁷⁵ = H, R⁷⁶ = H, R⁷⁷ = H, R⁷⁸ = H, R⁷⁹ = H, R⁸⁰ = H, R⁸¹ = H, R⁸² = H, R⁸³ = H, R⁸⁴ = H, R⁸⁵ = H, R⁸⁶ = H, R⁸⁷ = H, R⁸⁸ = H, R⁸⁹ = H, R⁹⁰ = H, R⁹¹ = H, R⁹² = H, R⁹³ = H, R⁹⁴ = H, R⁹⁵ = H, R⁹⁶ = H, R⁹⁷ = H, R⁹⁸ = H, R⁹⁹ = H, R¹⁰⁰ = H, R¹⁰¹ = H, R¹⁰² = H, R¹⁰³ = H, R¹⁰⁴ = H, R¹⁰⁵ = H, R¹⁰⁶ = H, R¹⁰⁷ = H, R¹⁰⁸ = H, R¹⁰⁹ = H, R¹¹⁰ = H, R¹¹¹ = H, R¹¹² = H, R¹¹³ = H, R¹¹⁴ = H, R¹¹⁵ = H, R¹¹⁶ = H, R¹¹⁷ = H, R¹¹⁸ = H, R¹¹⁹ = H, R¹²⁰ = H, R¹²¹ = H, R¹²² = H, R¹²³ = H, R¹²⁴ = H, R¹²⁵ = H, R¹²⁶ = H, R¹²⁷ = H, R¹²⁸ = H, R¹²⁹ = H, R¹³⁰ = H, R¹³¹ = H, R¹³² = H, R¹³³ = H, R¹³⁴ = H, R¹³⁵ = H, R¹³⁶ = H, R¹³⁷ = H, R¹³⁸ = H, R¹³⁹ = H, R¹⁴⁰ = H, R¹⁴¹ = H, R¹⁴² = H, R¹⁴³ = H, R¹⁴⁴ = H, R¹⁴⁵ = H, R¹⁴⁶ = H, R¹⁴⁷ = H, R¹⁴⁸ = H, R¹⁴⁹ = H, R¹⁵⁰ = H, R¹⁵¹ = H, R¹⁵² = H, R¹⁵³ = H, R¹⁵⁴ = H, R¹⁵⁵ = H, R¹⁵⁶ = H, R¹⁵⁷ = H, R¹⁵⁸ = H, R¹⁵⁹ = H, R¹⁶⁰ = H, R¹⁶¹ = H, R¹⁶² = H, R¹⁶³ = H, R¹⁶⁴ = H, R¹⁶⁵ = H, R¹⁶⁶ = H, R¹⁶⁷ = H, R¹⁶⁸ = H, R¹⁶⁹ = H, R¹⁷⁰ = H, R¹⁷¹ = H, R¹⁷² = H, R¹⁷³ = H, R¹⁷⁴ = H, R¹⁷⁵ = H, R¹⁷⁶ = H, R¹⁷⁷ = H, R¹⁷⁸ = H, R¹⁷⁹ = H, R¹⁸⁰ = H, R¹⁸¹ = H, R¹⁸² = H, R¹⁸³ = H, R¹⁸⁴ = H, R¹⁸⁵ = H, R¹⁸⁶ = H, R¹⁸⁷ = H, R¹⁸⁸ = H, R¹⁸⁹ = H, R¹⁹⁰ = H, R¹⁹¹ = H, R¹⁹² = H, R¹⁹³ = H, R¹⁹⁴ = H, R¹⁹⁵ = H, R¹⁹⁶ = H, R¹⁹⁷ = H, R¹⁹⁸ = H, R¹⁹⁹ = H, R²⁰⁰ = H, R²⁰¹ = H, R²⁰² = H, R²⁰³ = H, R²⁰⁴ = H, R²⁰⁵ = H, R²⁰⁶ = H, R²⁰⁷ = H, R²⁰⁸ = H, R²⁰⁹ = H, R²¹⁰ = H, R²¹¹ = H, R²¹² = H, R²¹³ = H, R²¹⁴ = H, R²¹⁵ = H, R²¹⁶ = H, R²¹⁷ = H, R²¹⁸ = H, R²¹⁹ = H, R²²⁰ = H, R²²¹ = H, R²²² = H, R²²³ = H, R²²⁴ = H, R²²⁵ = H, R²²⁶ = H, R²²⁷ = H, R²²⁸ = H, R²²⁹ = H, R²³⁰ = H, R²³¹ = H, R²³² = H, R²³³ = H, R²³⁴ = H, R²³⁵ = H, R²³⁶ = H, R²³⁷ = H, R²³⁸ = H, R²³⁹ = H, R²⁴⁰ = H, R²⁴¹ = H, R²⁴² = H, R²⁴³ = H, R²⁴⁴ = H, R²⁴⁵ = H, R²⁴⁶ = H, R²⁴⁷ = H, R²⁴⁸ = H, R²⁴⁹ = H, R²⁵⁰ = H, R²⁵¹ = H, R²⁵² = H, R²⁵³ = H, R²⁵⁴ = H, R²⁵⁵ = H, R²⁵⁶ = H, R²⁵⁷ = H, R²⁵⁸ = H, R²⁵⁹ = H, R²⁶⁰ = H, R²⁶¹ = H, R²⁶² = H, R²⁶³ = H, R²⁶⁴ = H, R²⁶⁵ = H, R²⁶⁶ = H, R²⁶⁷ = H, R²⁶⁸ = H, R²⁶⁹ = H, R²⁷⁰ = H, R²⁷¹ = H, R²⁷² = H, R²⁷³ = H, R²⁷⁴ = H, R²⁷⁵ = H, R²⁷⁶ = H, R²⁷⁷ = H, R²⁷⁸ = H, R²⁷⁹ = H, R²⁸⁰ = H, R²⁸¹ = H, R²⁸² = H, R²⁸³ = H, R²⁸⁴ = H, R²⁸⁵ = H, R²⁸⁶ = H, R²⁸⁷ = H, R²⁸⁸ = H, R²⁸⁹ = H, R²⁹⁰ = H, R²⁹¹ = H, R²⁹² = H, R²⁹³ = H, R²⁹⁴ = H, R²⁹⁵ = H, R²⁹⁶ = H, R²⁹⁷ = H, R²⁹⁸ = H, R²⁹⁹ = H, R³⁰⁰

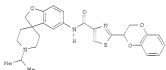
119 ANSWER 132 OF 250 CAPLUS COPYRIGHT 2007 ACS on SYN (Continued)
1,2,4-triazol-4-yl]phenoxy)methyl]benzoyl]- (9CI) (CA INDEX NAME)



119 ANSWER 117 OF 210 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2009-09126 CAPLUS
 DOCUMENT NUMBER: 19115811
 TITLE: Preparation of heterocyclohexanones and analogs as
 OX3 receptor modulators
 INVENTOR(S): Nevo, Michael J.; Bondiell, William E.; Fu, Thomas
 PATENT ASSIGNOR(S): Smithkline Beecham Corporation, USA
 SOURCE: PCT Int. Appl., 56 pp.
 DOCUMENT TYPE: COBLEN: P14K02
 LANGUAGE: Patent
 FAMILY ACT. NUM. COUNT: English
 1

PATIENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 1500040285	A2	20000520	MO 1999-0317118	19990728
MO 1500040285	A3	20000510		
W: CA, JP, US				
MM: A7, AE, CA, CT, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, NO, PT, SE				
CA 2138679	A2	20000210	JP 1999-2338679	19990728
EP 1102353	A2	20000530	EP 1999-337586	
AE, AT, BE, CA, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, FI				
JP 200201614	F	20020616	JP 1999-0461942	19990728
US 6739956	B1	20020705	US 2001-746629	20010408
JP 200201614	F	20020616	JP 1999-841649	19990728
FRONTIER APPL. INFO.				

OTHER SOURCE(S): MARPAT 132-151811
OI

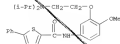


AS TABLE compounds were prepared. Thus, 5-amino-1-[2-methyl-ethyl]pyrazolo[4,3-b]pyridine-2(1H), 4'-piperidine] (preparation given) was acid anhydride by 2-[2,3-dihydro-1,4-benzodioxin-2-yl]thiazole-4-carboxylic to give title compound I. Data for biol. activity of title compds. were given.

IT 25781-42-4P

RU RSC [Biological activity or effector, except adverse]; RBU [Biological]

119 ANSWER 133 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PRP (Preparation); USES (Uses)
[prepn. of heterocycliccarboxanides and analogs as CCR5 receptor
modulators]
NN 257875-42-6 CAPLOS
2-Thiophenecarboxamide, N-[1-[2-[bis(1-methylethyl)amino]ethoxy]-6-
methoxyphenyl]-5-methyl-1H-1,2,4-triazole-3-carboxamide (CA INDEX NAME)



119 ANSWER 134 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999;00866 CAPLOS
 DOCUMENT NUMBER: 13216959
 TITLE: Long-wavelength dyes for infrared tracing and their use
 INVENTOR(S): Wu, Yexin; Klausner, Dieter H.; Kang, Hae Chol; Zhang,
 Yu-chang
 PATENT ASSIGNOR(S): Molecular Probes, Inc., USA
 SOURCE: U.S., 25 pp
 COUNTRY: USKAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. IPR. COUNT: 1
 PATENT INFORMATION: 1

PATENT NO. _____ KIND DATE APPLICATION NO. DATE
 US 6021173 A 19991225 US 1997-054423 19970514
 PRIORITY APPL. INFO.: US 1994-177429 P 19940515

OTHER SOURCE(S): MARPAT 132:36959
 AB The invention relates to fluorescent dyes that are substituted or unsubstituted derivs. of 1-(5-(4-methoxyphenyl)-1-isoxazole-3-ylidene)-2-imidazolidinone that are bound through both azobond nitrogen to a boron difluoride moiety, forming a fluorescent dibenzosyringene/benzonitrile compds. which are further substituted by bathochromic substituents that are aryl or heteroaryl moieties further substituted by an addnl. aryl or heteroaryl that is itself optionally further substituted by an addnl. aryl or heteroaryl. These aryl and heteroaryl groups are separated by a covalent bond, or by an ethynyl, butadienyl or hexatrienyl linkage. The dyes of the invention are particularly useful as labels for carriers, particularly polymeric microparticles. The resulting microparticles have a long-wavelength fluorescence emission, and possess utility for tracing flow in bio.

particular in labeling blood flow. In an example, fluorescent difluoro-15-methoxy-1-(15-methoxy-2-(2-(5-(4-methoxyphenyl)thienyl)-28-isoxazole-1-yl)methylene)-3-(2-(5-(4-methoxyphenyl)thienyl)-18-isoxazole-11,12-boron was prepared and incorporated into polystyrene microsphere.

BT 25444(41-47) 25444(43-47)
 \$L\$ INF (Industrial manufacture); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (Intermediary production of fluorescent dyes for IR tracing)
 NH 25444(41-8) CAPLOS
 CH BAKHANE,
 1-[4-methoxy-2-[(5-(4-methoxyphenyl)-2-thienyl)carboxyl]phenyl]-
 (NCI) [CA INDEX NAME]

119 ANSWER 135 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999;10280 CAPLOS
 DOCUMENT NUMBER: 13216959
 TITLE: Preparation of heterocyclic carbamides as 5-HT₂ agonists or antagonists
 INVENTOR(S): Howard, Harry Ralph
 PATENT ASSIGNOR(S): Pfizer Products Inc., USA
 SOURCE: Eur. Pat. Appl., 24 pp.
 COUNTRY: EPKSM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. IPR. COUNT: 1
 PATENT INFORMATION: 1

PATENT NO. _____ KIND DATE APPLICATION NO. DATE
 EP 957199 A 19991117 EP 1999-302288 19990325
 EP 957199 A3 19991124
 EP 957199 B1 20021120
 \$I\$ AT, \$E\$ BR, \$C\$ CH, \$DE\$ ES, \$FR\$ GB, \$GR\$ IT, \$J\$ LI, \$LU\$ NL, \$SE\$ MC, \$PT\$, \$S\$ \$S\$, \$T\$, \$LV\$, \$FI\$, \$NO\$
 AT 228139 T 20021125 AT 1999-302288 19990325
 BE 2149265 T3 20020216 BE 1999-302288 19990325
 JP 11324713 A 19991124 JP 1999-103917 19990412
 JP 3244712 B2 20011029
 CA 2248870 A1 19991015 CA 1999-2248870 19990413
 CA 2248870 C 20050329
 BR 9901052 A 20000425 BR 1999-1052 19990414
 US 627652 B1 20010921 US 1999-291352 19990414
 US 2001041795 A1 20011135 US 2001-862932 20010502
 DE 602874 A1 20030805
 US 200202148 A1 20020203 US 2001-862931 20010502
 US 657199 A1 20030325
 US 200312841 A1 20031219 US 2003-621029 20030620
 PRIORITY APPL. INFO.: US 1998-817909 P 19980415
 US 1999-291352 A3 19990414
 US 2001-862932 A3 20010502

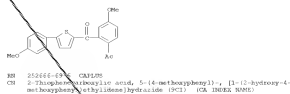
OTHER SOURCE(S): MARPAT 132:351148

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

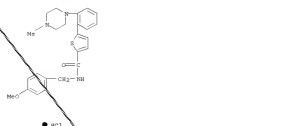
AB The title compds. [1, 2 = O, 21OH (wherein n = 2-3); R₁ (O = H, alkyl), Ph; X = H, halo, OR, etc.; Y = 21-IV (M = O, S; Z = H, F, Cl, etc.); R₂ = V, VI, etc.; R₃ = H, alkyl, etc.; R₄ = H, alkyl; R₅ = O = H, alkyl; R₆ = H, alkyl, (unsubstituted Ph, naphthyl); R₇ = (CH₂)₁₈ (n = 0-3); R₈ = H, (unsubstituted Ph, naphthyl, etc.), useful in treating or preventing migraine, depression and other disorders for which a 5-HT₂ agonist or antagonist is indicated, were prepared. Thus, reaction of 5-bromofuran-2-carboxylic acid 4-bromobenzoyl chloride with 2-(4-methoxyphenyl)-3-phenylpropanoic acid (preps. were given) in the presence of NaHCO₃ and NMP(3:1) in 1,2-dichloroethane and water afforded

119 ANSWER 134 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

119 ANSWER 135 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
 of the title compd. VII-NCI. Compd. 1 which was tested exhibited IC50's of < 0.65 µM for 5-HT_{2D} and IC50's of < 1.0 µM for 5-HT_{2A} affinity.
 IT 25038(47-47) 25038(48-49)
 \$L\$ RMC (Biological activity or effector, except address); BDP (Biological study, unclassified); SPH (Synthetic preparation); THD (Therapeutic use); RTD (Biological study); PREP (Preparation); USE (Use)
 [preparation of heterocyclic carbamides as 5-HT₂ agonists or antagonists]
 NH 25038(47-8) CAPLOS
 CH 2-Thiophenecarboxamide, N-[4-(methoxyphenyl)methyl]-5-[2-(4-methyl-1-piperazinyl)phenyl]-, monohydrochloride (NCI) [CA INDEX NAME]

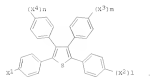


NH 25038(78-9) CAPLOS
 CH 2-Thiophenecarboxamide, N-[4-(methoxyphenyl)methyl]-5-[2-(4-methyl-1-piperazinyl)phenyl]-, monohydrochloride (NCI) [CA INDEX NAME]



119 ANSWER 138 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:394326 CAPLOS
 DOCUMENT NUMBER: 131:05577
 TITLE: Organic electric-field light-emitting device
 containing thiophene derivative
 Inventor(s): Matsuda, Masaharu; Kitamoto, Noriko
 Patent Assignee(s): Matsui Chemicals Inc., Japan
 Source: Jpn. Tokai Tokkyo Koho, 02 pp.
 Document Type: Patent
 Language: Japanese
 Family Acc. Num. Count: 1
 Patent Information:

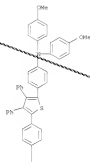
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 3126799Q	A	19930622	JP 1997-332149	19971202
JP 7659791	B2	20050615		
P2108177 APPL. INFO.: JP 1997-332149 19971202				
OTHER SOURCE(S): MARIAT 131:06577				
GT				



AB The device has a pair of electrodes sandwiching a layer containing a
 thiophene
 derivative 1 [X¹ = N-carboxyl, N-phenoxyl, N-phenoxythyl; X²-4 =
 N-carboxyl, N-phenoxythyl, N-phenoxythyl, N-phenyl; Ar, Z = aryl, 1, n,
 m
 = 0, 1]. The device shows long life and excellent durability.
 IT 228869-85-0 228869-86-1 228869-92-9
 228869-96-3 228870-00-0 228870-04-0
 228870-10-9 228870-12-0 228870-14-0
 RI 185 [Device component use]; H04M [Modifier or additive use]; US08
 [Case]
 (organic elec.-field light-emitting device containing thiophene
 derivative)
 RI 228869-85-0 CAPLOS
 CI Benzoxazole, 0-[4-[5-[4-(18-carboxyl-9-yl)phenyl]-3,4-diphenyl-2-
 thienyl]phenyl]-2-methoxy-N-phenyl- (PCI) (CA INDEX NAME)

119 ANSWER 138 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

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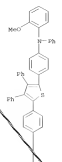
PAGE 2-A



RI 228869-92-9 CAPLOS
 CI Benzoxazole, 4-[5-[4-(4a,10a-dihydro-10H-phenoxazin-10-yl)phenyl]-3,4-
 diphenyl-2-thienyl]-N-(4-methoxyphenyl)-N-phenyl- (PCI) (CA INDEX NAME)

119 ANSWER 138 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



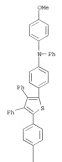
PAGE 2-A



RI 228869-86-1 CAPLOS
 CI Benzoxazole, 4-[5-[4-(18-carboxyl-9-yl)phenyl]-3,4-diphenyl-2-thienyl]-N,N-
 bis(4-methoxyphenyl)- (PCI) (CA INDEX NAME)

119 ANSWER 138 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



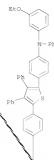
PAGE 2-A



RI 228869-86-3 CAPLOS
 CI Benzoxazole, N-[4-[5-[4-(4a,10a-dihydro-10H-phenoxazin-10-yl)phenyl]-3,4-
 diphenyl-2-thienyl]phenyl]-2-methoxy-N-phenyl- (PCI) (CA INDEX NAME)

119 ANSWER 138 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

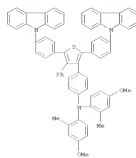


PAGE 2-A

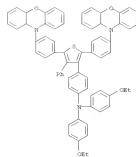


XXI 228870-06-6 CAPLUS
 CN Benzenamine, 4,4'-[2,5-bis(4-(1H-carbazol-9-yl)phenyl)-4-phenyl-3-thienyl]biphenyl-4-methoxy-8-(4-methoxy-2-methylphenyl)-2-methyl- (PC1) (CA INDEX NAME)

119 ANSWER 138 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

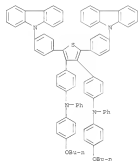


XXI 228870-04-0 CAPLUS
 CN Benzenamine, 4-[2,5-bis(4-(4a,10a-dihydro-10H-phenoxazin-10-yl)phenyl)-4-phenyl-3-thienyl]-8-[4-ethoxyphenyl]-8-(4-ethoxyphenyl)- (PC1) (CA INDEX NAME)

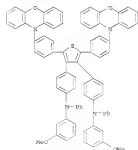


XXI 228870-10-8 CAPLUS

119 ANSWER 138 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN Benzenamine, 4,4'-[2,5-bis(4-(1H-carbazol-9-yl)phenyl)-7,4'-thiophenediyl]bis[8-(4-methoxyphenyl)-8-phenyl]- (PC1) (CA INDEX NAME)

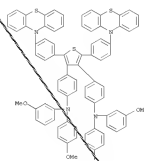


XXI 228870-12-0 CAPLUS
 CN Benzenamine, 4,4'-[2,5-bis(4-(10H-phenoxazin-10-yl)phenyl)-3,4'-thiophenediyl]bis[8-(4-methoxyphenyl)-8-phenyl]- (PC1) (CA INDEX NAME)



XXI 228870-14-2 CAPLUS
 CN Benzenamine, 4,4'-[2,5-bis(4-(10H-phenothiazin-10-yl)phenyl)-3,4'-

119 ANSWER 138 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 thiophenediyl]bis[8-(3-methoxyphenyl)-8-(4-methoxyphenyl)- (PC1) (CA INDEX NAME)



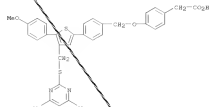
L19 ANSWER 139 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1999124657 CAPLUS
 DOCUMENT NUMBER: 1301281985
 TITLE: Preparation of arylthiophospha as PDE IV inhibitors
 INVENTOR(S): Bar, Torpigny Macdonald, Dwight; Girona, Andree;
 Young,
 PATENT ASSIGNER(S): Robert B.; Perrier, Helene; Lapine, Carole
 SOURCE: March Frost Canada Inc.,
 DOCUMENT TYPE: PCT Int. Appl., 133 pp.
 LANGUAGE: CORRESPONDING
 FAMILY ACT. NUM. COUNTRY: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9910499	A1	19990415	WO 1998-CA931	19981001
US 6110499	A1	19990415	US 98/04931	19981001
EP 0910499	A1	19990415	EP 98/04931	19981001
JP 9910499	A1	19990415	JP 98/04931	19981001
CA 2305414	A1	19990415	CA 1998-2305414	19981001
US 6055747	A	19990417	US 1998-92347	19981001
NO 934046	N2	20010436	EP 1998-94630	19981001
JP 1019399	N2	20000719	EP 1998-94630	19981001
US 6110499	A1	19990415	US 98/04931	19981001
JP 10051847	Z	20010213	JP 2000-54930	19981001
JP 9409029	N2	20030519	US 1997-609149	19971002
FI081077 APPL. INFO.			US 1998-8109	19980416
			WO 1998-CA931	19981001

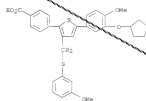
OTHER SOURCE(S):
 CA: MARIAT 1301281985

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

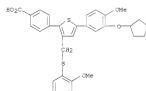
AB The title compounds, [2] Ar1 = (unsubstituted Ph, quinolinyl, pyridinyl, etc.), Ar2 = R, alkyl, optionally substituted with OH), K1/K2 (labeled K1 = CH3, a benzyl, etc.), R = H, Me, etc., Ar3 = (unsubstituted Ph, naphthyl, pyridinyl, etc.), R4 = H, alkyl, R5 = (unsubstituted Ph, naphthyl, pyridinyl, etc.), useful in the treatment of diseases, including asthma, by raising the level of cyclic adenosine-3',5'-monophosphate (cAMP) through the inhibition of phosphodiesterase IV (PDE IV), were prepared

L19 ANSWER 139 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 R.g., reaction of bromide II with lithium
 2-(4-0-methylthiophenyl)pyridine.
 5-trimethylthiophenyl salt in the presence of PG(PFK)4 in DMSO afforded
 thiophene III. The instant compd. I showed IC50 of 1 nM - 5 nM
 against PDE IV in human whole blood assay and IC50 of 0.1 nM - 5 nM in
 human mononuclear cell assay.
 IT 222840-54-1P 222840-29-1P 222840-43-9P
 222840-45-1P 222840-32-9P 222840-51-5P
 R1a: BNC (Biological activity or effector, except adverse); BDD
 (Biological
 study, unclassified); SH (Synthetic preparation); TH (Therapeutic use);
 WOL (Biological study); FEP (Preparation); WRE (Use)
 (preparation of arylthiophospha as PDE IV inhibitors)
 222839-54-3 CAPLUS
 CA: Benzenecarboxic acid,
 4-[[4-[[4-(4-dimethyl-2-pyridinyl)thio]methyl]-5-
 (6-methoxyphenyl)-2-thienyl]phenyl]methyl]- (SC1) (CA INDEX NAME)

 MN 222840-29-1 CAPLUS
 CN Benzoic acid, 4-[[4-[[4-(4-dimethyl-2-pyridinyl)thio]methyl]-5-(6-methoxyphenyl)-2-thienyl]phenyl]methyl]- (SC1) (CA INDEX NAME)

L19 ANSWER 139 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

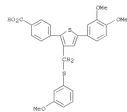


MN 222840-43-9 CAPLUS
 CN Benzoic acid, 4-[[4-[[4-(4-dimethyl-2-pyridinyl)thio]methyl]-5-(6-methoxyphenyl)-2-thienyl]phenyl]methyl]- (SC1) (CA INDEX NAME)

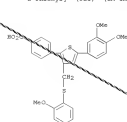


MN 222840-45-1 CAPLUS
 CN Benzoic acid,
 4-[[4-[[4-(4-dimethyl-2-pyridinyl)thio]methyl]-5-(6-methoxyphenyl)-2-thienyl]phenyl]methyl]- (SC1) (CA INDEX NAME)

L19 ANSWER 139 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

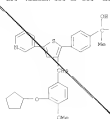


MN 222840-52-0 CAPLUS
 CN Benzoic acid,
 4-[[4-[[4-(4-dimethyl-2-pyridinyl)thio]methyl]-5-(6-methoxyphenyl)-2-thienyl]phenyl]methyl]- (SC1) (CA INDEX NAME)



MN 222840-57-5 CAPLUS
 CN Benzenemethanol, 4-[[4-[[4-(4-dimethyl-2-pyridinyl)thio]methyl]-5-(6-methoxyphenyl)-2-thienyl]phenyl]methyl]- (SC1) (CA INDEX NAME)

119 ANSWER 139 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 10 THERE ARE NO CITED REFERENCES AVAILABLE FOR THIS
 FORMAT: REMOVED. ALL CITATIONS AVAILABLE IN THE ES

119 ANSWER 140 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999122253 CAPLUS
 DOCUMENT NUMBER: 1701325046
 TITLE: Friedel-Crafts type reaction of chlorothiophenes with aromatic compounds and its application to the synthesis of aryl- and oligothiophenes
 AUTHOR(S): Sato, Taro; Sato, Kazuaki
 CORPORATE SOURCE: Pac. Exp. Yamagata Univ., Yonezawa, 992-8510, Japan
 SOURCE: Yamagata Daigaku Kyo, Kokusai (1999), 22(2), 49-55
 CUBN: 199902; ISBN: 0005-834X
 PUBLISHER: Yamagata Daigaku
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CATALACT 119:325656
 AB: Chlorothiophenes react with active aromatic compds. in the presence of AlCl₃

under mild conditions, yielding the corresponding arylthiophenes. Similarly, chlorinated bi- and terthiophenes are produced as the main products in the AlCl₃-catalyzed self-condensation of the chlorothiophenes.

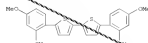
The reactions are discussed in terms of an ionic mechanism involving the thiophenium ions produced by the protonation of the chlorothiophenes. Versatility of the products for the synthesis of arylthiophenes, mixed thiophene-arene oligomers, and oligothiophenes is also demonstrated.

IT 223675-01-2P

RU 220 (Synthetic preparation); REEP (Preparation)

RU 223675-01-2 CAPLUS (Friedel-Crafts type reactions of chlorothiophenes)

RU 2,2'-Bithiophene, 5,5'-bis(2,4-dimethoxyphenyl)- (PCI) (CA INDEX NAME)

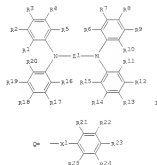


119 ANSWER 141 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999122253 CAPLUS
 DOCUMENT NUMBER: 1701325049
 TITLE: Positive-hole injection material for organic electroluminescent device
 INVENTOR(S): Enokida, Toshiyuki; Onikubo, Shunichi; Tamano, Michio; Ohtsuka, Satoshi
 PATENT ASSIGNER(S): Toyoda Ink Mfg. Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.
 CODES: J0004F
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 1026577B	A	19981006	JP 1997-69911	19970324

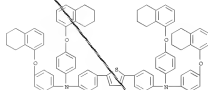
PRIORITY APPL. INFO.:
 01 MARKINT 129:308409



AB The material has a formula 1 [R1-20 = H, halo, alkyl, alkoxy, thioalkoxy, amino, monocylic group, polycyclic group, Q; R21-25 = H, halo, alkyl, alkoxy, thioalkoxy, amino, monocylic group, polycyclic group; R26-25 may form a cycloalkyl ring, aryl ring; R2 = direct bond, alkylene, (CH2)2-7, (CH2)8-23; (CH2)2-3; (CH2)2-3; O, S, CO, SO2, SiR3-4(R35), SiR4, PR3, PO(R36); A; p = 0-8 integer; x = y = 0; Z1 = Ar1, Ar2(R37Ar3), Ar4(R38Ar5); Ar1-6 = arylene; R26-41 = alkyl, monocylic group, polycyclic group]. The device shows high luminance efficiency.

119 ANSWER 141 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

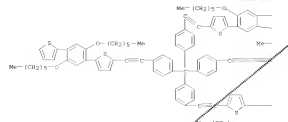
long life, and storage stability.
 IT 214328-45-1
 RU: REV (Device component use); MOD (Modifier or additive use); USES (Uses)
 (organic electroluminescent device containing aromatic pos.-hole material)
 RU 214328-45-1 CAPLUS
 CN 200909090
 4,4'-[2,2'-thiophenediylidene]bis[5,5'-bis(2,4-dimethoxy-1-methylethynyl)oxy]biphenyl- (PCI) (CA INDEX NAME)



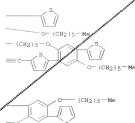
119 ANSWER 142 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1999:531555 CAPLUS
 DOCUMENT NUMBER: 129126997
 TITLE: Design, synthesis, and electrochemical polymerization of conjugated monomers with tetrahedral geometry: toward three-dimensional conductors
 AUTHOR(S): Masella, Michael J.; Li, Hong; Reid, Rodney D.
 CORPORATE SOURCE: Department of Chemistry, University of California at Riverside, Riverside, CA 92521, USA
 SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 39(2), 521-522
 PUBLISHER: CODEN: POLYPR; ISSN: 0923-3934
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: In design, synthesis, and potential applications of conjugated mols. with two- and three-dimensional geometries is discussed. The synthesis of tetrahedral thiophene-based monomers with conjugation extending in three dimensions is described. The electrochem. polymerization of the monomers is also discussed with emphasis on the potential for obtaining high-mol.-weight polymers which retain the characteristics of small-mol. conductors.
 IT 211701-51-09
 RI: 520 (Synthetic preparation); PREP (Preparation)
 (design, synthesis, and electrochem. polymerization of conjugated monomers: with tetrahedral geometry as route towards three-dimensional conductors)
 RI 211701-51-09 CAPLUS
 CN Thiophene, 2,3',4'',5'''-[[methanetetrayltetrakis(4,1-phenylene-2,5-ethynediyl)tetrakis[1,5-]]-di-]oxybis[phenyl]-4-(2-thienylphenyl)-, homopolymer (PCI) (CA INDEX NAME)
 OM 3
 CRI 211701-50-9
 CNF C17 H14.08 O8 S8

119 ANSWER 142 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

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PAGE 3-B

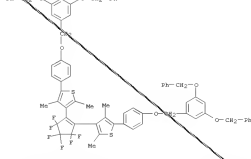


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE
 FORMAT

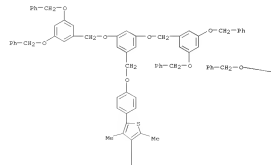
119 ANSWER 143 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1999:600518 CAPLUS
 DOCUMENT NUMBER: 129168019
 TITLE: Aggregation of dendrimers with a photochromic diethylenethere core group on the mica surface-atomic force microscopic imaging
 AUTHOR(S): Hellmann, Jorg; Henne, Mikko; Karkhanav, Oleg
 CORPORATE SOURCE: Yoshida, Shinmei, Matsuyama Irie, Masahiro
 SOURCE: Department of Chemistry and Biochemistry, Graduate School of Engineering, Ryukyu University, Nakoken, Nishihara, Naha, Okinawa, 901, Japan
 PUBLISHER: Japanese Journal of Applied Physics, Part 2: Letters (1999), 37(10A), 1016-1019
 CODEN: JJAPLN; ISSN: 0021-4922
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: Atomic force microscopic (AFM) imaging revealed that a polyether third generation dendrimer having a photochromic diethylenethere core group forms regularly aligned (hexagonal alignment) droplets of more or less equal size (100-120 nm) and height of the long axis of the dendrimer (5.0 ± 0.5 nm) on a mica surface when the surface is rinsed with a hexane solution of the dendrimer. The size suggests that one droplet contains around 30 dendrimers. The subtle balance among surface hydrophobicity, hydrophobicity of solvent and dendrimers, and structure or shape of the dendrimer is considered to control the regular alignment.
 IT 211242-81-09 211242-83-09
 RI: PREP (Preparation); SYN (Synthetic preparation); PREP (Preparation)
 (aggregation of dendrimers with photochromic diethylenethere core group on mica surface-atomic force microscopic imaging)
 RI 211242-81-09 CAPLUS
 CN Thiophene, 2,3'-[[1,3,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl]bis[5-(4-[[1,5-bis(phenylethoxy)phenyl]methoxy]phenyl)-2,4-dimethyl-]]- (PCI) (CA INDEX NAME)

119 ANSWER 143 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

PAGE 1-A



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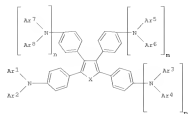


119 ANSWER 144 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

119 ANSWER 145 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 129160793
 TITLE: Organic electroluminescent device
 INVENTOR(S): Nakatsuka, Masakatsu; Yamamoto, Noriko
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc.; Japan
 SOURCE: COMPTON
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	FIRM	DATE	APPLICATION NO.	DATE
JP 10125468	A	19980515	JP 1997-217120	19970812
JP 3570285	B2	20070217		
JP 2007049177	A	20070222	JP 2004-257035	20040912
PRIORITY APPL. INFO.			JP 1994-230210	A 19940210
			JP 1997-217120	A3 19970812

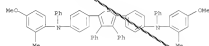
OTHER SOURCE(S): NAFPAT 129160793
 C1



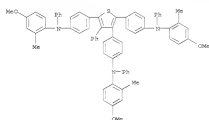
AB The invention relates to an organic electroluminescent device that comprises the organic compound represented by 1 [Ar1-6 = (n)substituted aryl group; X = O or S; m,n,p = 0 or 1], sandwiched between a pair of electrodes.
 IT 123715-28-8 123715-39-9 200599-72-8
 200599-73-9 200599-75-1 200599-76-2
 200599-81-1 200599-84-2 200599-91-1
 200599-92-2
 N/A DEV (Device component use); USES (Uses)

119 ANSWER 145 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

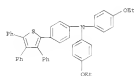
119 ANSWER 145 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Title: Organic electroluminescent device
 IN 123715-28-8 CAPLUS
 CN Benzenamine, 4,4',4'''-(4-phenyl-2,3,5-thiophenediyl)tris[N-(4-methoxy-2-methylphenyl)-N-phenyl]- (PCI) (CA INDEX NAME)



IN 123715-39-9 CAPLUS
 CN Benzenamine, 4,4',4'''-(4-phenyl-2,3,5-thiophenediyl)tris[N-(4-methoxy-2-methylphenyl)-N-phenyl]- (PCI) (CA INDEX NAME)

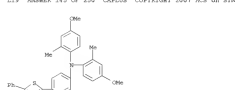


IN 200599-72-8 CAPLUS
 CN Benzenamine, N,N-bis[4-(4-methoxyphenyl)-4-(3,4,5-trimethyl-2-thienyl)]- (PCI) (CA INDEX NAME)

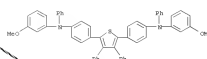


IN 200599-73-9 CAPLUS
 CN Benzenamine, 4-methoxy-N-(4-methoxy-2-methylphenyl)-2-methyl-N-[4-(3,4,5-trimethyl-2-thienyl)-N-phenyl]- (PCI) (CA INDEX NAME)

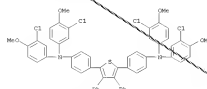
119 ANSWER 145 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IN 200599-75-1 CAPLUS
 CN Benzenamine, 4,4',4'''-(4-phenyl-2,3,5-thiophenediyl)bis[N-(3-methoxyphenyl)-N-phenyl]- (PCI) (CA INDEX NAME)

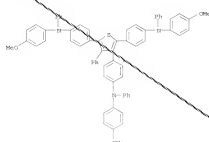


IN 200599-76-2 CAPLUS
 CN Benzenamine, 4,4',4'''-(4-phenyl-2,3,5-thiophenediyl)bis[N-bis(3-chloro-4-methoxyphenyl)-N-phenyl]- (PCI) (CA INDEX NAME)

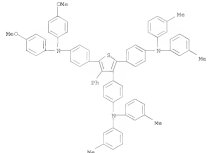


IN 200599-83-3 CAPLUS
 CN Benzenamine, 4,4',4'''-(4-phenyl-2,3,5-thiophenediyl)tris[N-(4-methoxy-2-methylphenyl)-N-phenyl]- (PCI) (CA INDEX NAME)

L19 ANSWER 145 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



320 208599-84-2 CAPLUS
 CN Benzenamine, 4,4'-(5-[(4-[(4-methoxyphenyl)amino]phenyl)-4-phenyl]-2,3-thiophenediyl)bis[3,5-bis(3-methoxyphenyl)-1-phenyl]- (9CI) (CA INDEX NAME)



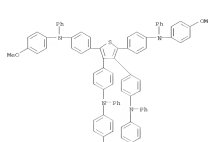
320 208599-81-3 CAPLUS
 CN Benzenamine, 4,4'-(5-[(4-[(4-methoxyphenyl)amino]phenyl)-4-phenyl]-2,3-thiophenediyl)bis[3,5-bis(3-methoxyphenyl)-1-phenyl]- (9CI) (CA INDEX NAME)

L19 ANSWER 145 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

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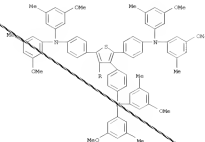


L19 ANSWER 145 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



320 208599-92-2 CAPLUS
 CN Benzenamine, 4,4'-(5-[(4-[(4-methoxyphenyl)amino]phenyl)-4-phenyl]-2,3-thiophenediyl)bis[3,5-bis(3-methoxyphenyl)-1-phenyl]- (9CI) (CA INDEX NAME)

PAGE 3-A



L19 ANSWER 146 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER:

1997-251159 CAPLUS

DOCUMENT NUMBER:

158-368-368

TITLE:

The preparation and use of ortho-sulfonamide aryl-

hydrazonic acids as matrix metalloproteinase and TACE

inhibitors

INVENTOR(S):

Lewicki, Jeremy Lany De Mula, T.; Venkatesan,

Arasapakan

Mudumali, Nelson; Frances Christy; Zaak, Arnie; Gu,

Yamamoto

PATENT ASSIGNEE(S):

Amelion Cyanamid Company, USA

SOURCE:

ECT Int. Appl., 164 pp.

CDBID: FIC02

LANGUAGE:

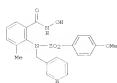
English

FAMILY ACC. NUM. COUNTRY:

1

PATENT INFORMATION:

119 ANSWER 146 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



11

AB The invention relates to novel, low mol. weight, non-peptide inhibitors

of

matrix metalloproteinases (e.g., gelatinase, stromelysin and collagenase) and TNP- α converting enzyme (TACE), tumor necrosis factor- α converting enzyme). The compounds are useful for the treatment of diseases in which these enzymes are implicated such as arthritis, tumor growth and metastasis, osteoporosis, tissue ulceration, abnormal wound healing, periodontal disease, bone disease, proteinuria, atherosclerotic disease, degenerative cartilage loss following

traumatic

joint injury, demyelinating diseases of the nervous system, graft rejection, sepsis, shock, inflammation, fever, insulin resistance, septic shock, congestive heart failure, inflammatory disease of the central nervous system, inflammatory bowel disease, HIV infection, age related macular degeneration, diabetic retinopathy, proliferative vitreoretinopathy, retinopathy of prematurity, ocular inflammation, hepatocarcinoma, Cystic fibrosis, myopia, ocular tumors, and ocular angiogenesis/neovascularization. The invention compounds are represented

by

the formula ES02(CR17)AC00008 [1: A = (un)substituted Ph or naphthyl; B = (un)substituted aryl, heterocyclic, or benzofused heterocyclic; R¹ = H, (un)substituted alk(en)yl; Ph, naphthyl, 5- or 6-membered heterocyclic, cycloalkyl, or cycloalkenyl; or R²CH₂CH₂CH₂ forms a non-aromatic 1,3-benzofused 7- to 10-membered heterocyclic ring with an optional

addition

benzo fusion where the hydroxamic acid moiety and the sulfonamide moiety are bonded to adjacent carbons on group A), and include pharmaceutically acceptable salts, optical isomers, and diastereomers. Prepn. of over

400

compds., including 1 and their intermediates, are given. For instance, 2-[(4-methoxybenzenesulfonyl)amino]-3-methylbenzoic acid Me ester

(preparation

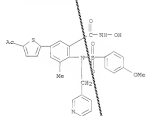
given) was N-allylated by 3-pyridyl chloride-HCl (93%), followed by hydrolysis of the ester with LiOH in aqueous THF (100%), activation with oxalyl chloride, and hydrazinolysis with NH₂OH-HCl (18), to give title compound 11. At 50 mg/kg/day in rats with cartilage implants, 11 gave

44.4%

inhibition of cartilage weight loss, and 51.2% inhibition of cartilage collagen loss.

119 ANSWER 146 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

INDEX NAME)



119 ANSWER 146 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 204549-35-19 CAPLUS

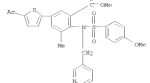
RI: RCT (Reactant); SPH (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate) preparation of ortho-sulfonamido aryl hydronic acids

matrix metalloproteinase and TACE inhibitors)

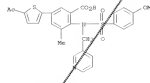
RI 204549-35-19 CAPLUS

CH Benzoic acid, 5-[(5-acetyl-2-thienyl)-2-[(4-methoxyphenyl)sulfonyl] (3-pyridyl)methyl]amino]-3-methyl-, methyl ester (PCI) (CA INDEX NAME)



RI 204549-36-2 CAPLUS

CH Benzoic acid, 5-[(5-acetyl-2-thienyl)-2-[(4-methoxyphenyl)sulfonyl] (3-pyridyl)methyl]amino)-3-methyl-, (PCI) (CA INDEX NAME)



IT 204549-36-2P

RI: RM (Biological activity or effector, except adverse); RHU

(Biological)

status (unclassified); SPH (Synthetic preparation); THU (Therapeutic use); RI: Biological study; PREP (Preparation); USES (Uses)

(Preparation of ortho-sulfonamido aryl hydronic acids as matrix metalloproteinase and TACE inhibitors)

RI 204549-37-3 CAPLUS

CH Benzoic acid, 5-[(5-acetyl-2-thienyl)-8-hydroxy-2-[(4-methoxyphenyl)sulfonyl] (3-pyridyl)methyl]amino)-3-methyl-, (PCI) (CA

119 ANSWER 147 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 199912164 CAPLUS

DOCUMENT NUMBER: 158-21054

TITLE: α -Dimers of Prototype High-Spin Polaronic Oligomers

van Buren, John A. E. B.; van Buren, Marc Janssen, Rene A. J.

LABORATORY OF Organic Chemistry, Eindhoven University of Technology, Eindhoven, 5600 MB, Neth.

Chemistry of Materials (1999), 10(4), 1166-1175

CODEN: CMATDH 15891 0897-4756

AMERICAN CHEMICAL SOCIETY

LANGUAGE: English

OTHER SOURCE(S): CHEMISTRY 118:21053

AB Novel well-defined oligomers consisting of two dipolar π -conjugated segments, 2,2'-bipyrrrole or 2,2'-bithiophene, linked via 1,3-phenylene

and end-capped with Ph groups have been synthesized using palladium-catalyzed cross-coupling reactions. The moieties are considered as prototypical

examples for polaronic ferromagnetic chains based on pyrrole and thiophene

units, which have been proposed as candidates for organic magnetic materials.

The oligomers are designed to investigate whether high-spin (i.e., triplet-state) oligocations can be obtained after oxidative doping. We

find that the oligomers can be oxidized to the corresponding dication radical(s), in which each heterocyclic segment is singly cationic and carries an unpaired electron, as required for a high-spin state. While

these dication radical(s) are stable at ambient temperature, UV/visible/mmr-IR

and EPR spectroscopy reveals that the singly charged cation radical segments reversibly form π -dimers in solution, especially at low temp.

Thus π -dimerization involves the intermol. antiferromagnetic pairing of oligocation spins and is detrimental for the formation of high-spin

oligomers or polymers via the polaronic concept with oxidized oligopyrrole or oligothiophene segments as spin-carrying units.

IT 20510-28-7

RI: PM (Formation, unclassified); PREP (Properties); FORM (Formation, nonnegative)

(π -dimer of prototype high-spin polaronic oligomers)

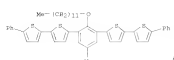
RI 20510-28-7 CAPLUS

CH 2,2'-Bithiophene, 5,5'-bis[(2-dodecylthio)-5-methyl-2,3-phenylene]bis[5'-phenyl-, radical ion(2+)] (PCI) (CA INDEX NAME)

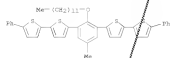
IT 205416-45-9

RI: PM (Formation, unclassified); PREP (Properties); RCT (Reactant); FORM

119 ANSWER 147 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (Formation, nonpreparative); RACT (Reactant or reagent)
 (k-dimer of prototype high-spin paramagnetic oligomers)
 RI 205435-43-3 CAPLUS
 CI 2,2'-bithiophene, 5,5''-[2-(iodoethoxy)-5-methyl-1,3-phenylene]bis(5'-phenyl-, radical ion(1-)) (PCI) (CA INDEX NAME)

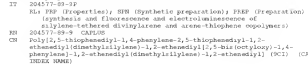


IT 205436-40-49
 RI PFP (Properties); RCT (Reactant); SPB (Synthetic preparation); FRFP (Preparation); RACT (Reactant or reagent)
 (k-dimer of prototype high-spin paramagnetic oligomers)
 RI 205436-40-4 CAPLUS
 CI 2,2'-bithiophene, 5,5''-[2-(iodoethoxy)-5-methyl-1,3-phenylene]bis(5'-phenyl-, radical ion(1-)) (PCI) (CA INDEX NAME)

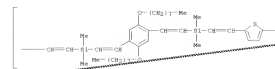


REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RI
 FORMAT

119 ANSWER 148 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1995124220 CAPLUS
 DOCUMENT NUMBER: 1281230377
 TITLE: Synthesis and photophysics of allylene-tethered divinylarene copolymers
 AUTHOR(S): Chen, Hany-Ming; Kemp, S. M.; Sun, G.; Lee, Luh; Tzeng-Tsun
 CORPORATE SOURCE: Department of Chemistry National Taiwan University, Taipei, 106, Taiwan
 SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1996), 39(1), 89
 CUBRI: NTPAT; ISSN: 0026-7974
 PUBLISHER: American Chemical Society, Division of Polymer Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Hydrocycloaddition of bis-allylenes with bis(vinylallylhydrides) yields allylene-tethered divinylarene polymers containing aryl or aryl-thiophene groups in the main chain. Polymer with aryl groups in the main chain exhibit dual fluorescence spectra and the intensity in the blue light region increases with mol. weight. Intramol. interaction between thiophenes in the polymers, both at the ground and at the excited states might occur.
 The polymer exhibited an electroluminescence band at 460 nm.
 IT 204577-89-39
 RI: PFP (Properties); SPB (Synthetic preparation); FRFP (Preparation) (Synthesis and fluorescence and electroluminescence of allylene-tethered divinylarene and aryl-thiophene copolymers)
 RI 204577-89-9 CAPLUS
 CI Poly[2,5-thiophene-2,5'-diyl-1,4-phenylene-2,5-thiodimethyl-1,2-ethenediyl(dimethylsilylene)-1,2-ethenediyl], 5-bis(oxetonyl)-1,4-phenylene-1,2-ethenediyl(dimethylsilylene)-1,2-ethenediyl (PCI) (CA INDEX NAME)



PAGE 1-A



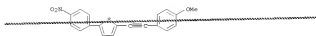
119 ANSWER 148 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B



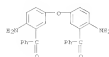
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RI
 FORMAT

119 ANSWER 149 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1995127418 CAPLUS
 DOCUMENT NUMBER: 128123143
 TITLE: Preparation and characterization of new substituted phenylthienylacetylenes: comparison of three possible pathways
 AUTHOR(S): Lataste, J.; Frie, D.; Karsch, G.
 CORPORATE SOURCE: Groupe de Synthèse Organique et Hétérocyclique, Laboratoire de Chimie Organique, Université de Metz, Ile du Saulcy, METZ, F-57 012, Fr.
 SOURCE: Heterocyclic Communications (1996), 4(1), 81-94
 CUBRI: SCHEM; ISSN: 0793-0287
 PUBLISHER: Freund Publishing House Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The synthesis of new substituted phenylthienylacetylenes is studied starting from selenadiazole rings, β -chloro acroleins and substituted Ph or thienyl acetylenes.
 IT 204377-13-4P
 RI: SPB (Synthetic preparation); FRFP (Preparation) (Preparation of)
 RI 204377-13-4 CAPLUS
 CI Thiophene, 2-[4-methoxyphenyl]ethynyl]-5-(4-nitrophenyl)- (PCI) (CA INDEX NAME)



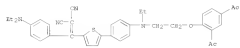
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119 ANSWER 151 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

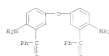


BN 201862-44-4 CAPLUS
 CN Prepared as triole,
 [[2-[4-[[2-(4,4-dimethoxyphenoxy)ethyl]ethylanino]phenyl]-
 2-thienyl]]-4-[[2-(4,4-dimethoxyphenyl)ethylethyl]-, polymer with
 (oxybis[6-amino-2,1-phenylene])bis[phenylmethanone] (PCT) (CA INDEX
 NAME)

CN 3
 CBN 201862-40-0
 CNF C38 N35 N4 O3 5



CN 5
 CBN 19827-14-4
 CNF C26 N20 N2 O3



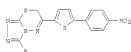
BN 201862-43-3 CAPLUS
 CN Prepared as triole,
 [[2-[4-[[2-(4,4-dimethoxyphenoxy)ethyl]ethylanino]phenyl]-
 2-thienyl]]-5-[[4-[[2-(4,4-dimethoxyphenyl)-2-thienyl]ethylethyl]-, polymer with
 (oxybis[6-amino-2,1-phenylene])bis[phenylmethanone] (PCT) (CA INDEX
 NAME)

119 ANSWER 152 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER: 1997, 691177 CAPLUS
 DOCUMENT NUMBER: 15714913
 TITLE: Studies on thiophene heterocycles. II. Synthesis and
 biological activity of some
 6-[[5-aryl-2-thienyl]-7H-a-

triazole[3,4-b]-1,3,4-thiadiazines
 AUTHOR(S): Kalluraya, Bhaskarishah, Shetty, Suresh N.
 CORPORATE SOURCE: Department of Studies in Chemistry, Mangalore
 University, Mangalagatoti, 574 559, India
 SOURCE: Indian Journal of Heterocyclic Chemistry (1997),
 6(4),

287-290
 CCBRN: JCBRN: 0971-1627
 Lookman University, Dep. of Chemistry
 JOURNAL
 LANGUAGE: English
 QT



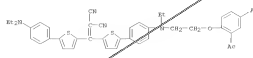
AB Title compd. I R = H, alkyl, aryl, (aryloxy)methyl, substituted
 aryl(methoxy) were prepared from amino-1,2,4-triazanethiols and
 2-(bromomethyl)-3-(4-nitrophenyl)thiophene. I were screened for
 antibacterial and antifungal activity. The chlorine-containing compds.
 were

significantly active against E. coli.
 IT 193280-68-3P 193280-69-2P
 RI: BNC [Biological activity or effector, except adverse]; BNC
 (biological)
 atoxy, unclassified]; BNC [Synthetic preparation]; BNC [Biological
 activity]; BNC [Preparation]
 (preparation and antimicrobial activity of)

BN 193280-68-3 CAPLUS
 CN 78-1,2,4-Triazole[3,4-b][1,3,4]thiadiazine,
 3-[[2-(4-methoxyphenyl)methyl]-6-
 [[5-[[4-nitrophenyl]-2-thienyl]]- (PCT) (CA INDEX NAME)

119 ANSWER 151 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

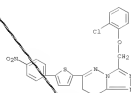
CN 1
 CBN 201862-41-3
 CNF C12 N40 N4 O3 82



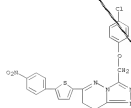
CN 2
 CBN 59823-14-4
 CNF C38 N35 N4 O3 5

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE
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119 ANSWER 152 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

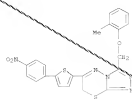


BN 193280-68-3 CAPLUS
 CN 78-1,2,4-Triazole[3,4-b][1,3,4]thiadiazine,
 3-[[2-(4-methoxyphenyl)methyl]-6-
 [[5-[[4-nitrophenyl]-2-thienyl]]- (PCT) (CA INDEX NAME)

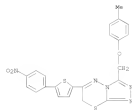


IT 193280-68-3P 193280-67-OP 193280-73-SP
 RI: BNC [Biological preparation]; BNC [Preparation]
 (preparation of)
 BN 193280-68-3 CAPLUS
 CN 78-1,2,4-Triazole[3,4-b][1,3,4]thiadiazine,
 3-[[2-(4-methoxyphenyl)methyl]-6-
 [[5-[[4-nitrophenyl]-2-thienyl]]- (PCT) (CA INDEX NAME)

119 ANSWER 152 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

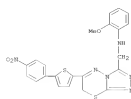


IN 197260-61-0 CAPLUS
 CN 78-1,4,4-Triazolo[5,4-b][1,3,4]thiadiazine,
 3-[[4-methylphenoxy]methyl]-6-
 [[5-(4-nitrophenyl)-2-thienyl]- (PCI) (CA INDEX NAME)



IN 197260-71-8 CAPLUS
 CN 78-1,4,4-Triazolo[5,4-b][1,3,4]thiadiazine-3-methanamine,
 6-[[2-methoxyphenyl]-6-[[5-(4-nitrophenyl)-2-thienyl]- (PCI) (CA INDEX NAME)

119 ANSWER 152 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE CONT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

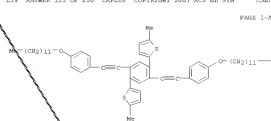
FORMAT

119 ANSWER 153 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 19717609
 DOCUMENT NUMBER: Directed Electrophilic Cyclizations: Efficient
 TITLE: Methodology for the Synthesis of Fused Polycyclic
 Aromatic
 AUTHOR(S): Goldfinger, Marc B.; Crawford, Khushav B.; Swager,
 Timothy M.
 CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of
 Technology, Cambridge, MA, 02139, USA
 SOURCE: Journal of the American Chemical Society (1997),
 119 (25), 4578-4593
 CSDEN: JACS(97) 2550: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 19717609

AB A versatile method for the synthesis of complex, fused, polycyclic, aromatic systems in high chemical yield is described. Construction is achieved using a general two-step synthetic sequence. Pd-catalyzed Suzuki and Negishi type cross-coupling chemistries allow for the preparation of non-fused skeletal ring systems in yields consistently >80%. The critical ring-forming step, which generally proceeds in very high to quant. yield, utilizes such as trifluoroacetic acid and iodonium tetrafluoroborate. The reaction in essence produces phenanthrene moieties which are integrated into extended polycyclic aromatic structures. Fused polycyclic benzenoids as well as benzenoid/thiophene systems may be prepared by this method. The scope of the described cross-coupling/cyclization chemical including mechanistic insights and problematic side reactions are described.
 IT 190372-35-0P 190372-07-7P 190372-10-2P
 SUJ ACT (Reactant) SYN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (cross-coupling/cyclization chemical in preparation of fused polycyclic arene.)
 IN 190372-35-0 CAPLUS
 CN Thiophene, 2,2'-[[1,3,5-bis[[4-(dodecylloxy)phenyl]ethynyl]-1,4-phenylene]bis[5-methyl]- (PCI) (CA INDEX NAME)

119 ANSWER 153 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



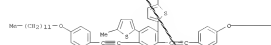
PAGE 1-A

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IN 190372-07-7 CAPLUS
 CN Thiophene, 2,2'-[[4,6-bis[[4-(dodecylloxy)phenyl]ethynyl]-1,3-phenylene]bis[5-methyl]- (PCI) (CA INDEX NAME)

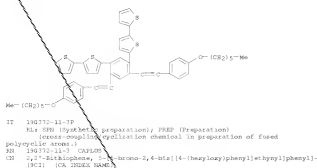
PAGE 2-A



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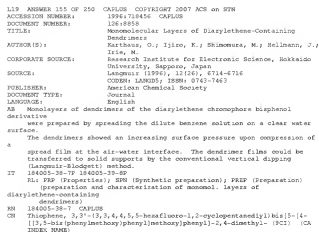
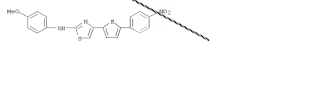
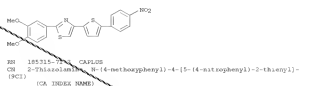
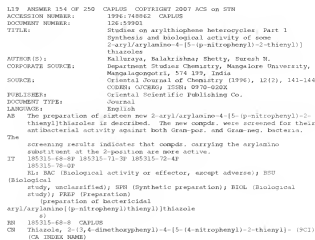
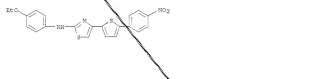
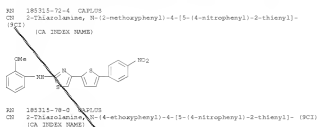
IN 190372-10-2 CAPLUS
 CN 2,2'-Bithiophene, 5,5'-[[4,6-bis[[4-(dodecylloxy)phenyl]ethynyl]-1,3-phenylene]bis[5-methyl]- (PCI) (CA INDEX NAME)

119 ANSWER 153 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 01 THERE ARE 0 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

119 ANSWER 154 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)



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L19 ANSWER 155 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Cont.)

L19 ANSWER 155 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Cont.)

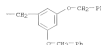
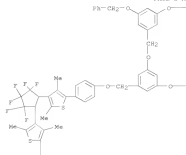
PAGE 1-B

PAGE 2-A

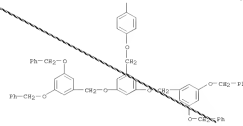


PH 184601-39-8 CAPLOS
 CH 2-Thiophene, 3,3'-bis[1,2,4,5,6-bis(4-methoxyphenyl)thio]bis[5-(4-[1,3,4-bis(4-methoxyphenyl)methoxy]phenyl)methoxy]phenyl]-2,4-disubstityl- (9C2) (CA INDEX NAME)

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REFERENCE COUNT: 0 THERE ARE 0 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE FILE

FORMAT

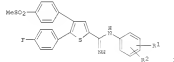
L19 ANSWER 156 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994187056 CAPLOS
 DOCUMENT NUMBER: 125276514
 TITLE: Preparation of phenylamindithiophene derivatives as antiinflammatory agents
 INVENTOR(S): Tanaka, Kiyomi; Mihida, Tokiko; Nakano, Jun; Inoue, Masaru; Nakano, Tetsuo; Tanaka, Kiyomi
 PATENT ASSIGNER(S): Kaken Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 34 pp.
 CODE(S): P13X02
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9642614	A2	19960929	WO 1996-29732	19960219
US 56, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000				

OTHER SOURCE(S): NARPAT 125:75634

GI



AS Phenylamindithiophene deriva. represented by general formula (1), (2), (3), (4)

H, halo, Cl-4 alkyl or alkoxy) or pharmaco. acceptable salts thereof, which show antiinflammatory activity without digestive tract disorders (e.g. stomach ulcer), and are useful for preventing and/or treating inflammatory diseases, collagen diseases, autoimmune diseases, other immune diseases, are prepared. Then, 200 mg

3-cyano-2-(4-fluorophenyl)-3-fu-
 methanesulfonylphenylthiophene was dissolved in 1,1,2,2-tetrachloroethane, treated with 226 mg AlCl3, stirred at room temperature for 1

L19 ANSWER 156 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
 h, treated with 0.14 mL n-chlorosulfonil, and stirred at 100° for 8 h to give, after workup and alicon gel chromatog., 356 mg 1 (5:1 = 3:1, 32

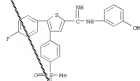
= 1). The latter compd. at 10 mg/kg p.o. per day for 17 days in vivo inhibited 31.5% arthritis in rat paws which was induced by direct s.c. administration of an adjuvant vs. 28.3% for indomethacin. It in vitro did not inhibit cyclooxygenase at 10-4 M, but indomethacin dose-dependently inhibited cyclooxygenase and showed complete inhibition at 10-4 M.

17 182225-54-39 182225-55-69 182225-59-89
 RU MC (Biological activity or effector, except adverse); B00 (Biological)

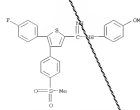
study, unclassified); SN (Synthetic preparation); T00 (Therapeutic use); B00 (Biological study); P00 (Preparation); U00 (Use)

(Preparation of phenylamindithiophene derivs. as antiinflammatory agents);

RU 182225-54-3 CAPLOS
 CH 2-Thiophene, 3,3'-bis[5-(4-fluorophenyl)-N-(4-methoxyphenyl)-4-(4-methylsulfonyl)phenyl]- (9C1) (CA INDEX NAME)

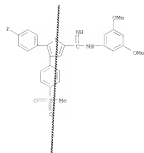
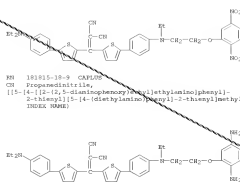


RU 182225-54-4 CAPLOS
 CH 2-Thiophene, 3,3'-bis[5-(4-fluorophenyl)-N-(4-methoxyphenyl)-4-(4-methylsulfonyl)phenyl]- (9C1) (CA INDEX NAME)

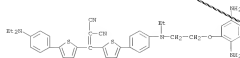


RU 182225-59-8 CAPLOS
 CH 2-Thiophene, 3,3'-bis[5-(4-fluorophenyl)-N-(4-methoxyphenyl)-4-(4-methylsulfonyl)phenyl]- (9C1) (CA INDEX NAME)

112 ANSWER 136 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

[illegible]

FN 181815-18-9 CAPLUS
 CN Propanedinitrile,
 [[5-[4-[[2-(2,5-diaminophenoxy)ethyl]ethylamino]phenyl]-
 2-thienyl][5-[4-(diethylamino)phenyl]-2-thienyl]methylene]- (9CI) (CA
 INDEX NAME)



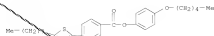
119 ANSWER 357 OF 250 CAPLUM COPYRIGHT 2007 ACS on STN (Continued)

119 ANMERK 158 OF 250
 ACCESSION NUMBER: CA038 CAPS COPYRIGHT 2007 ACS on STN
 1996:4857000 CA038
 DOCUMENT NUMBER: 1251427673
 TITLE: Heterocyclyl substituted hydroxyacetamide derivatives
 as cycloadducts
 INVENTOR(S): Doeller, Uwe; Braun, Peter; Sechse, Burkhard
 Release: Willy; Ort, Oswald Peter Gerald; Hough, Thomas
 Priority: Sampson, Donald James; Lindner, Kerstin; Lindel, Stephen David
 PATENT ASSIGNEE(S): Agaveco Inc Ltd., UK
 50/003C: PCT Int. Appl., 39 pp.
 COINB: P1X202
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COINB: 1
 PUBLICATION INFORMATION:

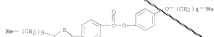
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9617440	A1	19960613		19951026
MC, BG, BR, CA, CN, DE, ES, FI, FR, GB, JP, KR, NL, NO, NZ, PL, RO, RU, SE, SG, SI, TR, US, UK, ZA				
MD, MG, RU, SG, SI, TR, US, UK, ZA				
TR, US, UK, ZA				
NO 9642655	A	19960626	NO 1996-42655	19951026
PRIORITY APPL. INFO.:			GB 1994-24553	A 19941026
			GB 1994-25971	A 19941222
			US 1995-2865	A 19950214
			WO 1995-GB2849	W 19950214

[illegible]

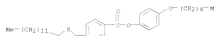
119 ANSWER 162 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



FN 172800-44-5 CAPLUS
CN Benzoic acid, 4-(5-decyl-2-thienyl)-, 4-(pentyloxy)phenyl ester (PCI)
ICA INDEX NAME



FN 172800-65-6 CAPLUS
CN Benzoic acid, 4-(5-dodecyl-2-thienyl)-, 4-(pentyloxy)phenyl ester (PCI)
ICA INDEX NAME



FN 172800-66-7 CAPLUS
CN Benzoic acid, 4-(5-butyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI) ICA
INDEX NAME

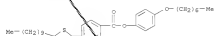


FN 172800-61-8 CAPLUS
CN Benzoic acid, 4-(5-octyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI) ICA
INDEX NAME

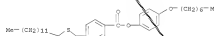
119 ANSWER 162 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



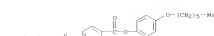
FN 172800-71-5 CAPLUS
CN Benzoic acid, 4-(5-decyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI)
ICA INDEX NAME



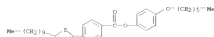
FN 172800-73-6 CAPLUS
CN Benzoic acid, 4-(5-dodecyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI)
ICA INDEX NAME



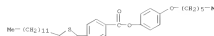
119 ANSWER 162 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



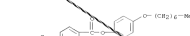
FN 172800-69-9 CAPLUS
CN Benzoic acid, 4-(5-decyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI) ICA
INDEX NAME



FN 172800-69-9 CAPLUS
CN Benzoic acid, 4-(5-dodecyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI)
ICA INDEX NAME



FN 172800-70-3 CAPLUS
CN Benzoic acid, 4-(5-butyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI)
ICA INDEX NAME



FN 172800-71-4 CAPLUS
CN Benzoic acid, 4-(5-octyl-2-thienyl)-, 4-(heptyloxy)phenyl ester (PCI)
ICA INDEX NAME

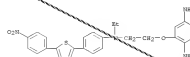
119 ANSWER 163 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 1995-03881 CAPLUS
DOCUMENT NUMBER: 164-0008
TITLE: Novel Aromatic Polyimides for Nonlinear Optics
YU, Dong; SHARV, Ali; YU, Liping
DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CHICAGO,
CHICAGO, ILL 60637, USA
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY (1995),
117(147), 5160-6
CODEN: JACSMT; ISSN: 0002-7863
AMERICAN CHEMICAL SOCIETY
JOURNAL

FOR LIBRARY DOCUMENT TYPE: English
AB A general approach to the synthesis of second-order nonlinear optical (NLO) polyimides exhibiting high thermal stability has been developed. Several selected NLO chromophores have been incorporated into the polyimide backbone. Detailed phys. studies showed that these polymers are

very promising for practical applications. Three of these polyimides are soluble in common organic solvents, offering the ease of processing. High glass temps., around 250 °C, assure a long-term NLO stability at elevated temps., such as 150 °C. Low optical loss was observed for these soluble polymers. The synthetic approach is also versatile and will allow the synthesis of many other functional polymers.

IT 171348-27-7P
RE AGT (Reactant); RSH (Synthetic preparation); PREP (Preparation); RACIT (Reactant or reagent)
RSH (Reactant) preparation and characterization of novel aromatic polyimides for nonlinear optics
FN 171348-27-7 CAPLUS
CN 1,4-benzenediamine, 2-[2-[ethyl]-4-[5-(4-nitrophenyl)-2-thienyl]phenylamino]ethoxy]-1,4-benzenediamine (PCI) ICA INDEX NAME

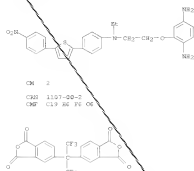


IT 171348-29-3P
RE: PREP (Preparation); RSH (Synthetic preparation); PREP (Preparation)
[Preparation and characterization of novel aromatic polyimides for nonlinear optics]

FN 171348-29-3 CAPLUS
CN 1,3-bis(2,6-dimethyl-4-nitrophenyl)-5,5'-[2,2,2-trifluoro-1,1,1-trisubstituted]ethane-1,3-dithiolane-2-thiophenylamino]ethoxy]-1,4-benzenediamine (PCI) ICA INDEX NAME

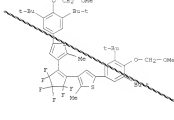
CA INDEX NAME

119 ANSWER 163 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CRI 111768-37-7
 CIP C26 H24 N4 O3 S



119 ANSWER 164 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1995:76273 CAPLUS
 1231270563
 TITLE: A dual-mode molecular switching device: Bisphenolic diarylethenes with integrated photochromic and electrochromic properties
 AUTHOR(S): Kawai, Stephen H.; Galat, Sylvain L.; Ponsinet, Rachel; Lohm, Jean-Marie
 CORPORATE SOURCE: Chem. Interactions Mol. Coll. France, Paris, 75025, Fr.
 SOURCE: Chemistry-A European Journal (1995), 1(5), 285-93
 PUBLISHER: Published in Angew. Chem., Int. Ed. Engl., 34(15)
 CIPRI 1230973 308: 0947-4533
 DOCUMENT TYPE: VCE
 LANGUAGE: English
 AB: Dual-mode optical-elect. mol. switching device was prepared in which all three states are stable species. The spectral and redox properties are very well suited to form the basis of an erasable optical data storage system with nondestructive readout capacity. While photochromic writing and erasing may be carried out as for any photochromic-based system, the redox behavior allows for the written data to be infrequently or locked by oxidation to the quinonoid form. Not only does this prevent erasing during the read process with visible light, but it also represents an amplification of the stored data, since the quinonoid absorbs approx. twice as strongly as the colored, photochromic form. A reduction process would then be used to unload the information and permit subsequent photochromic erasing. The complete process is thus a five-step write-lock-read-unlock-erase cycle. Such a system is also of interest in that it allows for both deep and shallow memory modes within the same medium, since locked data would remain unaffected during the course of writing and erasing of temporarily stored information based solely on the photochromic form of the device.
 DT 169173-74-0
 RI: REV (Device component use); PRE (Preparation, unclassified); FRP (Properties); FRP (Preparation); USES (Uses)
 (Bisphenolic diarylethenes with integrated photochromic and electrochromic properties for dual-mode mol. switching device)
 RI 169173-74-4 CAPLUS
 RI Thiophene,
 3,3'-(3,7,4,4',5,5'-hexafluoro-1-cyclopentene-1,2-diylium[5-(3,5,5-trimethyl-1,1-dimethylethyl)-4-methoxybenzoylphenyl]-2-methyl- (PCI) (CA INDEX NAME)

119 ANSWER 165 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



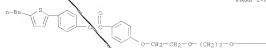
119 ANSWER 165 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1995:740932 CAPLUS
 1231270563
 TITLE: Mesomorphic compound, liquid crystal composition containing the compound, liquid crystal apparatus and display method
 INVENTOR(S): Kosaka, Yoko; Takiguchi, Takao; Tsaki, Takashi; Togan, Takashi; Nakamura, Shinichi
 PATENT ASSIGNOR(S): Canon K. K., Japan
 SOURCE: Eur. Pat. Appl., 115 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 641850	AL	19950308	EP 1994-117906	19940505
EP 641850	BL	20000426		
JP 0797442	A	19950317	JP 1993-243579	19930906
JP 0707643	A	19950320	JP 1993-243578	19930906
US 5669560	A	19950329	US 1993-781062	19930219
PRIORITY APPL. INFO.			JP 1993-243578	A 19930906
			JP 1993-243579	A 19930906
			US 1994-300527	BL 19940906

OTHER SOURCE(S): MARPAT 123127789
 AB: A mesomorphic compound $\text{C}_6\text{H}_4\text{N}(\text{CH}_2)_n(\text{CH}_2)_m(\text{CH}_2)_p(\text{CH}_2)_q\text{N}(\text{C}_6\text{H}_4)_2$ [R1 = H, halogen, CH₃ or a linear, branched or cyclized alkyl group having 1-30 C atoms capable of including at least one -CH₂- group which can be replaced with -CH₂-R₂, -CH₂-C(CH₃)₂-, -CH(CH₃)-, -C(CH₃)₂- or -CH(CH₃)- or -C(CH₃)₂- provided that heteroatoms are not adjacent to each other and capable of including at least one H which can be replaced with F, n, p and q = 1-16 provided that n + m + p + q ≤ 18; Y1 denotes a single bond, -O-, -CO-, -COO-, -CH₂- or -C(CH₃)₂-; A1 = -A2-, -A1-A2- or -A1-A2-A3-A4 in which A2, A3 and A4 independently denote a divalent cyclic group; X1, X2 = a single bond, -COO-, -COO-, -CH₂-, -CH₂-, -CH₂CH₂-, -CH₂CH₂- or -C(CH₃)₂- having at least two ether groups between alkylene groups in a specific alkoxy perfluoroalkoxy terminal group.
 is suitable as a component for a liquid crystal composition providing improved responses characteristics and a high contrast. A liquid crystal device is constituted by disposing the liquid crystal composition between a pair of substrates. The liquid crystal device is used as a display panel constituting a liquid crystal apparatus providing good display characteristics.
 RI 164440-86-4
 RI: MOA (Modifier or additive use); USES (Uses)
 (perfluoroalkyl) mesomorphic compound for liquid crystal composition
 RI 164440-86-4 CAPLUS
 RI Benzoic acid,
 4-[2-[3-(19,9,10,10-pentafluorodecyl)oxy]propoxy]ethoxy]-

L19 AMMEX 165 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
4-(5-butyl-2-thienyl)phenyl ester (PCI) (CA INDEX NAME)

PAGE 3-A



PAGE 1-8

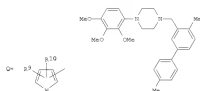
$$= (\text{CH}_2)_n - \text{CF}_2 - \text{CF}_2$$

AL19 ANMERKE 166 OF CARLOS COPYRIGHT 2007 ACE ON STR
 ASSIGNMENT NUMBER: 1995-100776 CARLOS
 DOCUMENT NUMBER: 112-21424
 TITLE: Preparation of N-aralkylpiperazines and piperidines
 as antileishmanics
 INVENTOR(S): McCort, Gary; Fauriol, Jean-Claude; Blondet,
 Dominique
 PATENT ASSIGNER(S): Gellibert, Francoise
 SOURCE: Patent Pharmaceut Soc Ltd., UK
 PCT Int. Appl., 43 pp.
 CODE: P1K2D
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

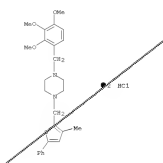
[illegible]

OTHER SOURCE(S): CASREACT 122:81404; NARPAT 122:81404
 GI

119 ANSWER 164 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

[illegible]

L12 ANSWER 166 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)




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L13  NUMBER 189 OF 250  CARLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:      1994:545281  CARLUS
DOCUMENT NUMBER:       121:145281
TITLE:                 High-sensitivity electrophotogra
INVENTOR(S):           Hataetori, Yoshinaga; Koshiro, Nob
PATENT ASSIGNEE(S):    Fujii Kinkokai Co Ltd, Japan
SOURCE:                Jpn. Kokai Tokkyo Koho, 19 pp.
                        CO0282: JK004F
DOCUMENT TYPE:         Patent
LANGUAGE:              Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05363222	A	19931116	JP 1992-105014	19920422
PRIORITY APPLN. INFO.:			JP 1992-105014	19920422

25 The title electrophotographic photoreceptor utilizes a carrier-generating material expressed as (CPA)-NiN-X-NiN-(CPB) [X = aromatic hydrocarbon or unsatd. heterocyclic group, the preceding groups linked via vinylenes, O, CO, CHN, NR (R = H, Aromatic hydrocarbon or aromatic heterocycle); CPA and CPB are specified copolymer residues].

IT 157270-03-0
RL: US25 (User)
(electrophotog. charge-generating compound)

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920 157270-67-8 CAPLOS
C93 2-Naphthalene-carboxanide, 4-[[[4-[5-[4-[[[3-[[[4-cyano-1-hydroxy-3-
methylypyrido[1,2-a]benzimidazol-2-yl]amino]carboxyl]-2-hydroxy-3-
naphthalenyl]azo]phenyl]-2-thienyl]phenyl]azo]-3-hydroxy-N-(4-methoxy-2-
methylethyl)prop-1-en-1-yl] (CA INDEX NAME)

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119 ANSWER 170 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:435005 CAPLUS

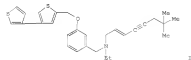
DOCUMENT NUMBER: 12135005
TITLE: Substituted alkylamine derivatives
INVENTOR(S): Takezawa, Hiroshi; Kayashi, Masahiro; Iwasawa, Yoshikazu; Hosoi, Masaaki; Iida, Yoshiaki; Tsuchiya, Yoshimi; Sorae, Masahiro; Kamei, Toshio
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: U.S., 74 pp. Cont.-in-part of U.S. Ser. No. 533,532, abandoned

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5234946	A	19930410	US 1991-753611	19910903
DE 3809792	A	19890928	ZA 1989-892804	19891212
JP 03193766	A	19910923	JP 1988-296840	19881212
CN 10371341	A	19891115	CN 1988-109274	19881212
ZA 8908464	A	19910210	ZA 1989-8464	19891212
PRIORITY AFFIN. INFO.			JP 1987-299584	A 19871212

PRIORITY	APPLN. INFO.	JP	1987-299584	A	19871212
		JP	1988-96286	A	19880431
		JP	1988-113310	A	19880531
		JP	1988-285381	A	19881111
		US	1988-274972	B2	19881212
		US	1990-465209	B2	19900301

OTHER SOURCE(S): MARPAT 121-35005
OT

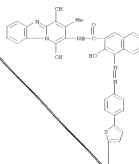


A3 The title compounds, and their uses for the treatment of hypercholesterolemia, arteriosclerosis and and hyperlipemia are claimed. Specifically claimed is compound 1. The title compounds are squalene epoxidase inhibitors.

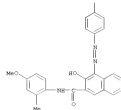
IT 155294-36-TF
 RI: SYN (Synthetic preparation); PREP (Preparation)
 [preparation of, as antiarteriosclerotic, anticholesterolenic or
 hypolipemic]

L19 ANSWER 169 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM [Continued]

PAGE 1-2



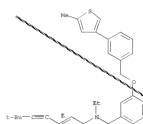
PAGE 2-2



119 ANSWER 170 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

Double bond geometry as shown.

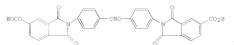
Double bond geometry as shown.



L19 ANSWER 171 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1994124460 CAPLUS
 DOCUMENT NUMBER: 120124460
 TITLE: Diamide dicarboxylic acids and their polyamides
 INVENTOR(S): Yang, Chin Ping; Hsiao, Sheng Hwei; Lin, Jian Hung
 PATENT ASSIGNEE(S): National Science Council, Taiwan
 SOURCE: U.S., 11 pp.
 COMBID: 063589
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5484497	A	19931207	US 1993-44237	19930407
US 5443470	A	19930209	US 1993-44243	19931203
PRIORITY APPL. INFO.			US 1993-44237	AT 19970407

OTHER SOURCE(S): MARPAT 120124460
 OR



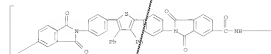
AB Title acids 2 (R = arylene), useful for manufacture of polyamide-polyether-
 polyimides with improved strength, heat resistance and processability,
 are
 prepared by condensing the appropriate aromatic diamines with trimellitic
 anhydride (2) in a polar solvent. Thus, reaction of 3,4-bis(4-
 oxyphenyl)benzene with 11 in DMF gave 3 (R = 4-phenylene), which was
 polymerized with 2,7-bis(4-(4-aminophenoxy)phenyl) sulfone to give a
 polymer
 with tensile strength 62 MPa and 10% weight loss temperature 525 and
 521° as
 air and N₂ resp.
 IT 141790-06-3P
 RI: DMF (Industrial manufacture); PEP (Preparation)
 NH 141790-00-1 CAPLUS
 CH Poly[1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyli-1,4-phenyleneoxy-3,4-
 phenyleneoxy-1,4-phenylene[1,3-dihydro-1,3-dioxo-2H-isoindole-2,3-
 diyl]oxyimino-1,4-phenylene[7,4-diphenyl-2,5-thiophenediyl]-1,4-
 phenyleneiminoacarbonyl] (PC1) (CA INDEX NAME)

L19 ANSWER 172 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1994129417 CAPLUS
 DOCUMENT NUMBER: 120129417
 TITLE: New poly(amide-imide) synthesis. IX. Preparation and
 properties of poly(amide-imide)s derived from
 2,7-bis(4-aminophenoxy)naphthalene and various
 bis(trimesic acid)s
 AUTHOR(S): Yang, Chin Ping; Chen, Wen Tung
 COPYRIGHT SOURCE: Dep. Chem. Eng., Tatung Inst. Technol., Taipei,
 Taiwan
 SOURCE: Journal of Polymer Science, Part A: Polymer
 Chemistry
 Chemistry
 (1994), 32(6), 1101-11
 COMBID: 070207 1201: 0887-624X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Eleven bis(phenoxy)naphthalene-containing poly(amide-imide)s were
 synthesized
 by the direct polycondensation of 2,7-bis(4-aminophenoxy)naphthalene
 (BAPN) with various aromatic bis(trimesic acid)s in
 N-methyl-2-pyrrolidone
 [1] using tri-n-butyl phosphite and pyridine as condensing agents.
 Poly(amide-imide)s having inherent viscosities of 0.75-2.12 dL/g were
 obtained in quant. yield. The polymers containing p-phenylene of
 bis(phenoxy)benzene units exhibited crystalline x-ray diffraction
 patterns.

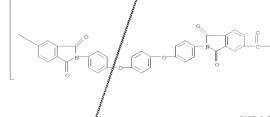
Most of the polymers were readily soluble in various solvents such as 1,
 N,N-dimethylacetamide (DMF), DMSO, m-cresol, o-chlorophenol, and pyridine,
 and gave transparent and flexible films cast from 11 solns. Cast films
 showed obvious yield points in the stress-strain curves and had strength
 at break up to 87 MPa, elongation to break up to 11%, and initial modulus
 up to 2.10 GPa. These poly(amide-imide)s had glass transition temps. in
 the range of 235-321°, and the 10% weight loss temps. were recorded in
 the range of 519-581° in nitrogen. The properties of
 poly(amide-imide)s were compared with those of the corresponding isomeric
 poly(amide-imide)s prepared from
 2,7-bis(4-(4-trimellitimidophenoxy)naphthalene
 and aromatic diamines.

IT 141822-71-3P
 RI: PEP (Properties); BPH (Synthetic preparation); PEP (Preparation)
 NH 141822-71-8 CAPLUS
 CH Poly[1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyli-1,4-phenylene[7,4-
 diphenyl-2,5-thiophenediyl]-1,4-phenylene[1,3-dihydro-1,3-dioxo-2H-
 isoindole-2,3-diyl]oxyimino-1,4-phenylene[7,4-diphenyl-2,5-thiophenediyl]-
 1,4-phenyleneiminoacarbonyl] (PC1) (CA INDEX NAME)

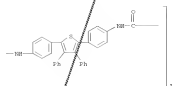
PAGE 1-A



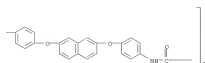
L19 ANSWER 171 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 PAGE 1-A



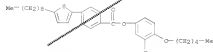
PAGE 1-B



L19 ANSWER 172 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 PAGE 1-B

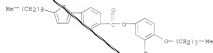


119 ANSWER 177 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1993:61439 CAPLUS
 DOCUMENT NUMBER: 119214399
 TITLE: A study of homologation and the occurrence of an SA-SC-SA sequence of phases in the 4-alkoxy-3-fluorophenyl
 4-(5-alkyl-2-thienyl)benzoates
 AUTHOR(S): Byron, D. J.; Matharu, A. S.; Shirazi, S. N. E.; Tajbakhsh, A.; Wilson, R. C.
 CORPORATE SOURCE: Imp. Chem. Inds., Nottingham Trent Univ., Nottingham, Nott, UK
 SOURCE: Liquid Crystals (1993), 14(3), 645-52
 DOCUMENT TYPE: JOURNAL
 ABSTRACT: Seventeen esters, derived from 4-alkoxy-3-fluorophenols and 4-(5-alkyl-2-thienyl)benzoic acids, were prepared and their liquid crystal transition temps. determined by thermal optical microscopy. On cooling the isotropic liquids, the SA-SC-SA sequence of phases reported for the octyloxy-nonyl and octyloxy-nonyl esters was observed for certain other homologs, principally members of the 4-(5-nonyl-2-thienyl)benzoates. For these esters, the temperature range of occurrence of the intermediate SC phase decreases as the length of the alkoxy chain increases (for the heptyloxy-nonyl to dodecyloxy-nonyl esters) and the SC phase is absent for the tetradecyloxy-nonyl homolog.
 INDEXING TERMS: 1T 150640-46-3P 150640-47-4P 150640-48-5P 150640-49-6P 150640-50-7P 150640-51-8P 150640-52-9P 150640-53-10P 150640-54-11P 150640-55-12P 150640-56-13P 150640-57-14P 150640-58-15P 150640-59-16P 150640-60-17P 150640-61-18P 150640-62-19P
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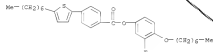


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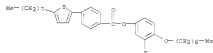
119 ANSWER 177 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



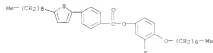
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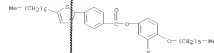


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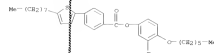


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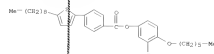
119 ANSWER 177 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



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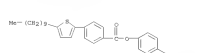


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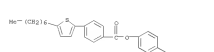


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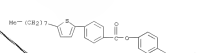
119 ANSWER 177 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



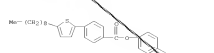
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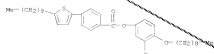
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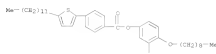
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119 ANSWER 177 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

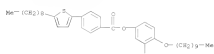
3H 156440-59-0 CAPLUS
 CH Benzoic acid, 4-[(1-dodecyl-2-thienyl)-, 3-fluoro-4-(nonyloxy)phenyl ester (9CI) (CA INDEX NAME)



3H 156440-59-8 CAPLUS
 CH Benzoic acid, 4-[(1-dodecyl-2-thienyl)-, 3-fluoro-4-(nonyloxy)phenyl ester (9CI) (CA INDEX NAME)



3H 156440-60-1 CAPLUS
 CH Benzoic acid, 4-[(1-nonyl-2-thienyl)-, 4-(dodecyl)-3-fluorophenyl ester (9CI) (CA INDEX NAME)



3H 156440-61-2 CAPLUS
 CH Benzoic acid, 4-[(1-nonyl-2-thienyl)-, 4-(dodecyl)-3-fluorophenyl ester (9CI) (CA INDEX NAME)

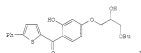
119 ANSWER 178 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

ACCESSION NUMBER: 156440-61-2 CAPLUS
 DOCUMENT NUMBER: 156440-61-2
 TITLE: alkoxy-2-hydroxyphenyl 5-phenyl-2-thienyl ketones and their use as UV absorbers in photoreactive materials
 INVENTOR(S): Leppard, David G.; Jurek, Kurt
 PATENT ASSIGNEE(S): Ciba-Geigy A.G., D-4000, Bielefeld, Germany
 SOURCE: Eur. Pat. Appl., 12 pp.

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNTRY: 1
 PATENT INFORMATION: 1

PATENT NO.	INTD	DATE	APPLICATION NO.	DATE
EP 521823	A1	19930107	EP 1992-810481	19920424
EP 521823	B2	19950217		
US 5205752	B1	19940301	JP 1992-066607	19920630
JP 05144483	A	19930803	JP 1992-200323	19920703
JP 5213386	B2	20010129	CH 1991-1943	A 19910703

PRIMARY APPL. INFO.:
 OTHER SOURCE(S): CASREACT 118:212876; MARPAT 118:212876
 QT



AB Some 4-alkoxy-2-hydroxyphenyl 5-phenyl-2-thienyl ketones are claimed. A process for the preparation of said compounds is claimed which comprises the

alkylation of 2,4-dihydroxyphenyl 5-phenyl-2-thienyl ketone with an alkyl halide or an epoxy compound. These compounds are UV absorbers for photoreactive materials. Photoreactive materials containing a transparent carrier, a layer containing of said 2,4-dihydroxyphenyl 5-phenyl-2-thienyl ketone derivative, and layers of a silver halide emulsion are obtained. Treatment of 2,4-dihydroxyphenyl 5-phenyl-2-thienyl ketone with an alkyl halide ether gave 4-(3-butoxy-2-hydroxypropoxy)-2-hydroxyphenyl 5-phenyl-2-thienyl ketone [1] in 77% yield.

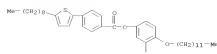
1T 146950-32-7P 146950-33-5P 146950-34-3P
 146950-35-0P

RU: EPV (Synthetic preparation); PREP (Preparation)

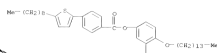
3H 146950-32-7 CAPLUS

CH Butanoic acid, 4-[(3-butoxy-2-hydroxy-4-[(5-phenyl-2-thienyl)oxy]phenyl)-, ethyl ester (9CI) (CA INDEX NAME)

119 ANSWER 177 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



3H 156440-62-3 CAPLUS
 CH Benzoic acid, 4-[(1-nonyl-2-thienyl)-, 3-fluoro-4-(tetradecyloxy)phenyl ester (9CI) (CA INDEX NAME)



119 ANSWER 178 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)

ACCESSION NUMBER: 146950-32-7 CAPLUS
 DOCUMENT NUMBER: 146950-32-7
 TITLE: alkoxy-2-hydroxyphenyl 5-phenyl-2-thienyl ketones and their use as UV absorbers in photoreactive materials
 INVENTOR(S): Leppard, David G.; Jurek, Kurt
 PATENT ASSIGNEE(S): Ciba-Geigy A.G., D-4000, Bielefeld, Germany
 SOURCE: Eur. Pat. Appl., 12 pp.

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNTRY: 1
 PATENT INFORMATION: 1

1T 146950-32-7P 146950-33-5P 146950-34-3P
 146950-35-0P

RU: EPV (Synthetic preparation); PREP (Preparation)

3H 146950-32-7 CAPLUS

CH Butanoic acid, 4-[(3-butoxy-2-hydroxy-4-[(5-phenyl-2-thienyl)oxy]phenyl)-, ethyl ester (9CI) (CA INDEX NAME)



3H 146950-34-9 CAPLUS
 CH Methanone, (2-hydroxy-4-[(5-phenyl-2-thienyl)oxy]phenyl)- (9CI) (CA INDEX NAME)



3H 146950-35-0 CAPLUS
 CH Methanone, (2-hydroxy-4-[(5-phenyl-2-thienyl)oxy]phenyl)- (9CI) (CA INDEX NAME)



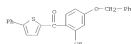
1T 146950-37-0P 146950-38-1P 146950-39-2P
 146950-40-3P 146950-41-4P

RU: EPV (Synthetic preparation); PREP (Preparation)

3H 146950-37-0 CAPLUS

CH Methanone, (4-[(3-butoxy-2-hydroxypropoxy)-2-hydroxyphenyl] 5-phenyl-2-

L19 ANSWER 178 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

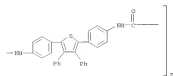


IN 146950-91-6 CAPLOS
CN Methanone, [2-hydroxy-4-(phenylmethoxy)phenyl](5-phenyl-2-thienyl)- (9CI)
(CA INDEX NAME)



119 ANSWER 179 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

143780-01-2 CAPLUS
Poly(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diy)-1,4-phenyleneoxy-1,3-phenyleneoxy-1,4-phenylene(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diy)carbonylimino-1,4-phenylene-1,4-diphenyl-2,5-thiophenediy-1,4-phenylenesulfonylcarbonyl (SCI) (CA INDEX NAME)



119 ANSWER 190 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 ACCESSION NUMBER: 1992:512335 CAPLUS
 DOCUMENT NUMBER: 117112515
 TITLE: New poly(amide-imide)s acrylamides. I. Soluble high-temperature poly(amide-imide)s derived from 2,5-bis(4-(4-trimellitimidophenyl))-3,4-diphenylthiophene and various aromatic diamines
 AUTHOR(S): Yang, Chin-Ping; Yon, Yong-Yu
 CORRESPONDENCE SOURCE: Dep. Chem. Eng., Tatung Inst. Technol., Taipei, Taiwan
 SOURCE: Chemistry

DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: Novel aromatic poly(amide-imide)s with high inherent viscosities were prepared

by direct polycondensation of 2,5-bis(4-(4-trimellitimidophenyl))-3,4-diphenylthiophene (I) and aromatic diamines using tri-*n*-butyl phosphite in the N-methyl-2-pyrrolidone/pyridine solution containing dissolved CuCl₂. I was readily obtained by the condensation reaction of 2,5-bis(4-(4-trimellitimidophenyl))-3,4-diphenylthiophene with trimellitic anhydride. The obtained poly(amide-imide)s showed high thermostability. Their decomposition

temp. at 10% weight loss in N₂ were 550-570 and the aromatic char yield at 500° was 40-49%. Almost all the poly(amide-imide)s showed high glass transition temp. (>300°) by DSC measurements. These polymers were readily soluble in various organic solvents and could be cast into transparent, tough, and flexible films. Their casting films showed obvious yield points in the stress-strain curves and had strength at break

674.1 MPa, elongation to break <70.1%, and initial modulus 44.56 GPa. The factors affecting the reaction of I and 4,4'-oxydianiline in view of monomer concentration, reaction temperature, and amount of CuCl₂ were also investigated.

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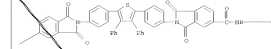
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119 ANSWER 190 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STM (Continued)
 ACCESSION NUMBER: 1992:512335 CAPLUS
 DOCUMENT NUMBER: 117112515
 TITLE: New poly(amide-imide)s acrylamides. I. Soluble high-temperature poly(amide-imide)s derived from 2,5-bis(4-(4-trimellitimidophenyl))-3,4-diphenylthiophene and various aromatic diamines
 AUTHOR(S): Yang, Chin-Ping; Yon, Yong-Yu
 CORRESPONDENCE SOURCE: Dep. Chem. Eng., Tatung Inst. Technol., Taipei, Taiwan
 SOURCE: Chemistry



DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: Novel aromatic poly(amide-imide)s with high inherent viscosities were prepared

by direct polycondensation of 2,5-bis(4-(4-trimellitimidophenyl))-3,4-diphenylthiophene (I) and aromatic diamines using tri-*n*-butyl phosphite in the N-methyl-2-pyrrolidone/pyridine solution containing dissolved CuCl₂. I was readily obtained by the condensation reaction of 2,5-bis(4-(4-trimellitimidophenyl))-3,4-diphenylthiophene with trimellitic anhydride. The obtained poly(amide-imide)s showed high thermostability. Their decomposition

temp. at 10% weight loss in N₂ were 550-570 and the aromatic char yield at 500° was 40-49%. Almost all the poly(amide-imide)s showed high glass transition temp. (>300°) by DSC measurements. These polymers were readily soluble in various organic solvents and could be cast into transparent, tough, and flexible films. Their casting films showed obvious yield points in the stress-strain curves and had strength at break

674.1 MPa, elongation to break <70.1%, and initial modulus 44.56 GPa. The factors affecting the reaction of I and 4,4'-oxydianiline in view of monomer concentration, reaction temperature, and amount of CuCl₂ were also investigated.

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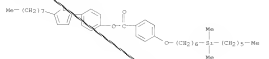
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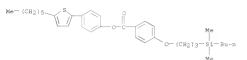
119 ANSWER 181 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



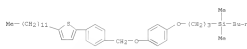
320 141051-32-9 CAPLUS
CN 511446
[2-[[4-[[4-(15-hexyloxyphenyl)ethoxy]phenyl]ethoxy]ethyl]trimethyl-
1-(9CI) (CA INDEX NAME)



320 141051-34-1 CAPLUS
CN 511446
Benzene acid, 4-[5-(methylidimethylallyl)propoxy]-, 4-(5-hexyloxy-2-
thienyl)phenyl ester (9CI) (CA INDEX NAME)



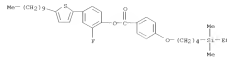
320 141051-35-2 CAPLUS
CN 511446
Butyl 5-[4-[[4-(5-dodecyl-2-thienyl)phenyl]methoxy]phenyl]propyl
dimethyl- (9CI) (CA INDEX NAME)



320 141051-36-3 CAPLUS
CN 511446
Benzene acid, 4-[4-(ethylidimethylallyl)ethoxy]-, 4-(5-decyl-2-thienyl)-2-

119 ANSWER 181 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

fluorophenyl ester (9CI) (CA INDEX NAME)

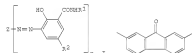


119 ANSWER 182 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991265598 CAPLUS
DOCUMENT NUMBER: 116165598
TITLE: Electrophotographic photoreceptor containing also
charge-generating agent
INVENTOR(S): Yamada, Yasuyuki; Inomoto, Tazuo; Ito, Naoto;
Yanaguchi, Toshiaki
PATENT ASSIGNER(S): Mitsui Toatsu Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JYQXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNTRY: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 5402971	A	19920234	JP 1990-124594	19900516
JP 5895162	B2	19990524	JP 1990-124594	19900516

PRIORITY APPL. INFO.:
GT
ORIGIN SOURCE(S): JAPAN 116165598

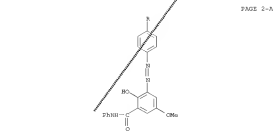
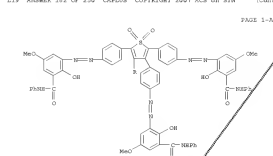


AB The title photoreceptor consists of an elec. conductive substrate coated
with a photosensitive layer containing 2) also compound 1 [I, R2 =
(substituted) aromatic hydrocarbon group, aromatic heterocyclic group/
R2 = alkyl, alkoxy; n = 2-6]. A photoreceptor having a charge-generating
layer
containing 1 [I = II, R2 = o-C6H4; R2 = OMe; n = 2] showed high
photosensitivity and durability during repeating use.

1T 141624-30-8 141624-33-5
R1: 72M (Technical or engineered material used); U98S (Uses)
(electrophotographic, charge-generating agent)

320 141624-30-8 CAPLUS
CN 511446
Benzamide, 3,3',3'',3'''-[5,11-dioxido-2,3,4,5-
thiophenetetrakis[1,1'-phenyleneoxy]]tetrakis[2-hydroxy-5-methoxy-0-
phenyl- (9CI) (CA INDEX NAME)

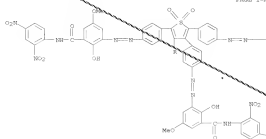
119 ANSWER 182 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



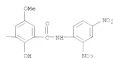
320 141624-33-1 CAPLUS
CN 511446
Benzamide, 3,3',3'',3'''-[1,1'-dioxido-2,3,4,5-
thiophenetetrakis[1,1'-phenyleneoxy]]tetrakis[2-hydroxy-5-methoxy-0-
phenyl- (9CI) (CA INDEX NAME)

L19 ANSWER 182 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

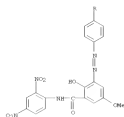


PAGE 1-B



L19 ANSWER 182 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

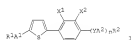
PAGE 2-A



L19 ANSWER 183 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991224885 CAPLUS
 DOCUMENT NUMBER:
 TITLE: Mesomorphic compounds and liquid-crystal compositions and devices containing them
 INVENTOR(S): Yamada, Tokyo; Takiguchi, Takao; Iwaki, Takashi; Tugano, Takahiko; Nakamura, Shinichi
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Eur. Pat. Appl., 123 pp.
 COUNTRY: EPOLAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

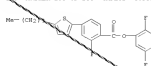
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 467040	A2	19900310	EP 1991-117155	19910715
EP 467040	A3	19900557		
EP 467040	B2	19901016		
JP 04217973	A	19920807	JP 1990-326454	19901117
US 5244392	A	19930914	US 1991-707160	19910715
AZ 1442171	T	19941115	AZ 1991-117155	19910715
PRIORITY APPL. INFO.:			JP 1990-188490	A 19900715
			JP 1990-326454	A 19901117

OTHER SOURCE(S): MANSAT 116/224885
 Q1

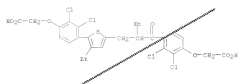


AS The compts. have the general formula I, where R1, R2 = C1-18 alkyl in which
 CR2 may be replaced by CO2, O, ORF, ORCF3, ORCl, ORCN, or C(Me)(CN) and R2 may also be R, halogen, CN, or CF3; n = 0 or 1; A1 = single bond, 1,4-phenylene, 2,5-furanyl, or 2,6-furanyl; A2 = 1,4-phenylene or 1,4-cyclohexylene substituted with Et and Et, 2,5- or 5,2-pyridinediyl, or thienopyrid-2,5-ylene; X1, X2, Y1, Y2 = H, halogen, CN, or CF3; and Y = COO, OCO, CR2O, OR2, or single bond.
 IT 141137-21-25
 RA: TDS (Technical or engineering material use); UNES (Uses) (liquid-crystal compts. containing, for display devices)
 RP 141137-21-25 CAPLUS
 CH Benzoic acid, 2-fluoro-4-(5-octyl-2-thienyl)-, 2,5-difluorophenyl ester (9CI) (CA INDEX NAME)

L19 ANSWER 183 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



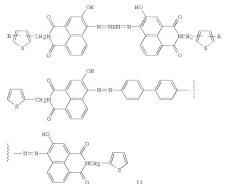
119 ANSWER 194 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992162573 CAPLUS
 DOCUMENT NUMBER: 116116253
 TITLE: Purans and thiophenes from ataractic acid
 Goeblitzer, Klaus; Bessene, Michael
 Inst. Pharm. Chem., Tech. Univ. Braunschweig,
 Braunschweig, 3305, Germany
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1992),
 35(1), 9-12
 CODEN: ARPHDH; ISSN: 0365-4233
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 CHEMABSTRACT: 116116254
 GI For diagrams, see printed CA issue.
 AB KNOCKOUT-COR [1, R = CH₃ KNOCKOUT-COR(12-4,2,3, R1 = H, Me, KNOCKOUT-COR)]
 react with polyphosphoric acid (PPA) to yield the furans II (R = O) and
 with PPA to the thiophenes II (R = S). I (R1 = OH) cyclize with PPA to
 form the α,β -unsat. nityroketones. I (R1 = OH) is reduced by
 NaBH₄ OH⁻ and dimerizes selectively to give the β -hydroxy
 carboxylic acid (18a, 682)-KNOCKOUT-COR(18a200) which is cyclized to III by
 degradation with PPA. II (R = SO₂) are obtained from II (R = S) by
 oxidation.
 with magnesium monopropylphosphate. Under the same conditions II (R = O,
 R1 = Me) is cleaved to yield (18)-KNOCKOUT-COR(18), which tautomerizes slowly
 forming (18)-KNOCKOUT-COR(18) is stable.
 IT 1391519-99-49
 R1a SPB (Synthetic preparation) PREP (Preparation)
 NH 1391519-99-6 CAPLUS
 CH Acetic acid, [4-[5-[2-[4-(methoxymethoxy)-2,3-dichlorobenzoyl]butyl]-3-
 ethyl-2-thienyl]-2,3-dichlorobenzoyl] (SC1) (CA INDEX NAME)



119 ANSWER 185 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992162573 CAPLUS
 DOCUMENT NUMBER: 116116253
 TITLE: Electrophotographic photosensors using novel bisazo
 charge-generating agent
 Masuy, Masayuki; Furukawa, Masami; Koshio, Noboru
 Fuji Kasei Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JPKOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 INVENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0225445	A	19901114	JP 1990-282465	19901019
JP 2873392	RE	19901109	JP 1990-8027	19901017

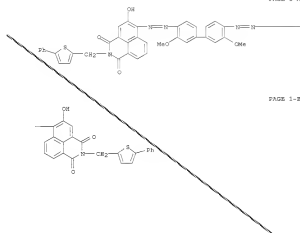
PRIORITY APPL. INFO.:
 GI



AB The photosensors comprise a photosensitive layer containing (I) bisazo

119 ANSWER 195 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 comp. I (R = H, Me, substituted alkyl or aryl; R' = substituted
 acen, hydrazine, condensed polycyclic or heterocyclic ring). The
 photosensors show good photoconductivity, durability, and provide high
 quality images. Thus, an Al vapor-deposited polyester film was coated
 with a comp. contg. II and 1-phenyl-3-(p-diethylaminoethyl)-5-(p-
 diethylaminoethyl)-2-pyrazole to give a photosensor.
 IT 140111-14-2
 R1a USES (Uses)
 (Charge-generating agent, electrophotog. photosensor using)
 NH 140111-14-2 CAPLUS
 CH 18-Benz[6a]indolizine-1,3(12H)-dione, 6,6'-[(3,3'-dimethoxy[1,1'-
 biphenyl]-4,4'-diyl]bis(acetate)bis[5-hydroxy-2-(5-phenyl-2-thienyl)methyl]-
 (SC1) (CA INDEX NAME)

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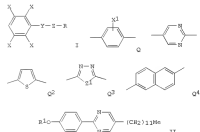


PAGE 1-B

119 ANSWER 186 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991610497 CAPLUS
 DOCUMENT NUMBER: 115123697
 TITLE: Preparation of liquid crystal compositions
 Nishi, Yoshimasa; Takaguchi, Takayuki; Takay, Isaki
 Tokai, Gijy. Yamada, Yoko
 Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
 CODEN: JPKOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 INVENT INFORMATION: 1

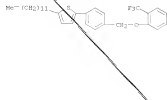
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02254635	A	19901016	JP 1989-77040	19890228
PRIORITY APPL. INFO.:			JP 1989-77040	19890228

OTHER SOURCE(S):
 GI NMRPAT 115-219697



AB Liquid crystal compns. comprising I (R = (substituted) C1-16 alkyl,
 alkoxycarbonyl, arylethyl, alkoxycarbonyloxy; X = H, CF₃, but at least one
 is CF₃, Y = OCH₃, OCH₂, OCH₂; S = 1,4-cyclohexylene, Q-Q4 wherein X1
 = H, F, Cl, Br, cyano, Me; Z1 = O, S) are prepared A mixture of
 m-CPKBA600A
 a phenol derivative II (R1 = H), DCC, and pyridine/pyridine in CHCl₃
 was stirred at room temperature to give 69% ester II (R1 = m-CPKBA600),
 which showed crystalline-isotropic-anisotropic A-smectic C transition temperature

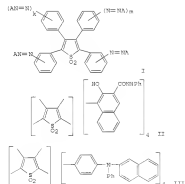
119 ANSWER 186 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 77.8°, 68.4°, and 62.5°, resp.
 JT 122611-82-3
 RI 722 (Properties)
 DOCUMENT NUMBER: 115146584
 TITLE: Coating compositions for fabrication of electrophotographic photoconductors
 INVENTOR(S): Morimoto, Hiroshi; Sasagawa, Tomoyoshi; Koide, Tetsuhiro; Sugaw, Hiroshi
 PATENT ASSIGNER(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 COSENT: JPOKAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION



119 ANSWER 186 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1991146584
 DOCUMENT NUMBER: 115146584
 TITLE: Coating compositions for fabrication of electrophotographic photoconductors
 INVENTOR(S): Morimoto, Hiroshi; Sasagawa, Tomoyoshi; Koide, Tetsuhiro; Sugaw, Hiroshi
 PATENT ASSIGNER(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 COSENT: JPOKAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION

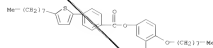
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 5762454	A	19910201	JP 1989-158299	19900622
JP 281593	B2	19991027	JP 1989-158299	19990622

PRIORITY APPL. INFO.:
 OTHER SOURCE(S): MAKINT 115:146584
 CI

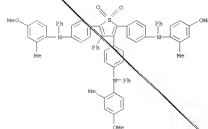


AS The title coating comps. are dispersions of diazo dyes I (A = complex group; x, n = 0, 1) in solvent solns. of poly(vinyl butyral). The invention includes similar dispersions in solvent solns. of vinyl chloride

119 ANSWER 187 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1991594870
 DOCUMENT NUMBER: 115194870
 TITLE: Chiral smectic polymorphism of 3-fluoro-4-octyloxyphenyl 4-(5-octyl-2-thienyl)benzoate
 AUTHOR(S): Dutcher, Jane L.; Renshaw, John F.; Byrne, David J.; Tajbakhsh, Ali J.; Wilson, Robert C.
 CORPORATE SOURCE: Dup. Chem. Corp., Nottingham Polytech., Nottingham, NG11 8BP, UK
 SOURCE: Molecular Crystals and Liquid Crystals, Letters Section (1990), 173, 75-7
 CORDIS: WCL482; ISSN: 0808-7659
 JOURNAL: Journal
 DOCUMENT TYPE: English
 LANGUAGE: English
 AS The smectic liquid crystal phases formed by 3-fluoro-4-octyloxyphenyl 4-(5-octyl-2-thienyl)benzoate were investigated by thermal optical microscopy, differential scanning calorimetry, and x-ray diffraction. The phase sequence SA-S_C-S_C-S_C is observed on cooling the isotropic liquid. The S_C phase is structurally similar to an SA phase and hence corresponds to a 7ed smectic phase with unstructured layers.
 JT 134831-47-3
 RI 722 (Properties)
 DOCUMENT NUMBER: 115194870
 TITLE: Chiral smectic polymorphism of (liquid crystal, smectic polymorphism of)
 INVENTOR(S): Dutcher, Jane L.; Renshaw, John F.; Byrne, David J.; Tajbakhsh, Ali J.; Wilson, Robert C.
 PATENT ASSIGNER(S): Dup. Chem. Corp., Nottingham Polytech., Nottingham, NG11 8BP, UK
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 COSENT: JPOKAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION



119 ANSWER 188 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 copolymers. These dispersions have high dispersed state and dispersion stability, and provide highly performing photoconductors. Thus, 0.5 g of II was dispersed in 25 ml 10% soln. of Bakelite XE1 in TEF, and mixed with 30 ml TEF. An Al plate was coated with this dispersion and dried to form a 0.5-μm-thick charge-generating layer. A charge-transporting layer containing III and polycarbonate was coated on the charge-generating layer, to obtain a photoconductor that showed high layer adhesion. The photoconductor was chargeable to -1010 V, which decayed to -970 V after 2 s, and showed residual voltage -5 V and sensitivity 11 μs required for half decay of charged voltage) 1.5. These values were >70 V, >80 V, >5 V and 1.5, resp., after 1000 charge-photodischarge cycles. The coating compn. showed no change on standing for 1 mo.
 JT 134228-42-9
 RI 722 (Properties)
 DOCUMENT NUMBER: 115194870
 TITLE: Chiral smectic polymorphism of (charge-transporting agent, electrophotog. photoconductors containing)
 INVENTOR(S): Dutcher, Jane L.; Renshaw, John F.; Byrne, David J.; Tajbakhsh, Ali J.; Wilson, Robert C.
 PATENT ASSIGNER(S): Dup. Chem. Corp., Nottingham Polytech., Nottingham, NG11 8BP, UK
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 COSENT: JPOKAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION



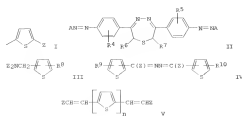
119 ANSWER 189 OF 250 CARLOS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER: 11582195
DOCUMENT NUMBER: 11582195
TITLE: Electrophoretic photoconductor with charge generating layer from bisazo compound
INVENTOR(S): Furuta, Masami; Asano, Masayuki; Furukawa, Noboru
PATENT ASSIGNEE(S): Fuji Electric Co., Ltd., Japan
SOURCE: Ger. Offen., 207 pp.
CODING: ANGXGX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNTRY: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4010100	A1	1990-01-20	DE 1990-4010010	19900405
DE 4020200	C2	1990-04-27		19900406
JY 07029145	A	1990-02-17	JY 1989-143023	19900406
US 5097543	A	1992-02-23	US 1990-130088	19900531
DE 4042451	C2	1993-10-07	DE 1990-4042451	19900603
DE 4042454	C2	1990-08-14	DE 1990-4042454	19900603
US 5198318	A	1993-03-30	US 1991-799601	19911127
US 5246410	A	1993-11-30	US 1992-901997	19921130
US 5270390	A	1994-01-04	US 1993-13915	19930219
US 5285900	A	1994-02-15	US 1993-74545	19930611
US 5305422	A	1994-07-09	US 1993-74597	19930611
US 5305428	A	1994-07-09	US 1993-75300	19930611
PRIORITY APPL. INFO.			JY 1989-143023	A 19890406
			DE 1990-130088	A3 19900531
			DE 1990-4010010	A3 19900603
			US 1991-799601	A3 19911127
			US 1992-902097	A3 19921130
			US 1993-13915	A3 19930219

OTHER SOURCE(S):
C2 NAUPAT 115:82195

119 ANSWER 189 OF 250 CARLOS COPYRIGHT 2007 ACS on STN (Continued)



AB The title material contains a photosensitive layer containing a charge-generating agent from a diazo compound $\text{R}^1\text{C}(\text{H})\text{N}=\text{N}-\text{C}(\text{H})=\text{N}-\text{R}^2$ (I)

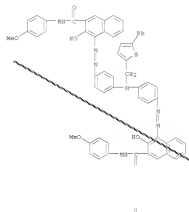
where R¹ = Ar(R¹-p-COMe), A = coupling group, R¹-R², R¹ (R¹, R² = H, halogen, alkyl, alkoxy, R¹, R² = H, alkyl, aryl), R¹ (R¹ = H, halogen, alkyl, aryl, cyano), R¹-C(R¹)(H)C(R¹), IV (R¹, R² = H, halogen, alkyl, aryl), R¹-C(R¹)(H)C(R¹), or V (n = 1-5). The photoconductor has improved decay properties.

IT 134570-14-2 134570-11-7 134571-24-7
RI 0325 (0nes)
134571-06-9 134596-53-5

RI 134570-14-2 CAPLOS
(electrophotographic photoconductor with charge generating agent from)
CH 2-Naphthalene-3-carboxamide,
4,4'-[1,1'-bis(2-phenyl-2-thienyl)methyl]bis(4,2-phenyleneazo)bis[3-hydroxy-N-(4-methoxyphenyl)- (PCI) (CA INDEX NAME)

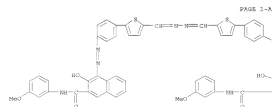
119 ANSWER 189 OF 250 CARLOS COPYRIGHT 2007 ACS on STN (Continued)

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RI 134570-11-7 CAPLOS
CH 2-Naphthalene-3-carboxamide,
4,4'-[1,1'-bis(2-phenyl-2-thienyl)methyl]bis(4,2-phenyleneazo)bis[3-hydroxy-N-(4-methoxyphenyl)- (PCI) (CA INDEX NAME)



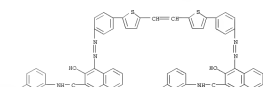
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119 ANSWER 189 OF 250 CARLOS COPYRIGHT 2007 ACS on STN (Continued)

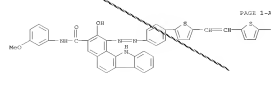
PAGE 1-B



RI 134571-04-7 CAPLOS
CH 2-Naphthalene-3-carboxamide, 4,4'-[1,1'-bis(2-phenyl-2-thienyl)methyl]bis(4,2-phenyleneazo)bis[3-hydroxy-N-(4-methoxyphenyl)- (PCI) (CA INDEX NAME)



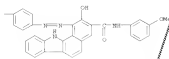
RI 134570-14-2 CAPLOS
CH 2-Naphthalene-3-carboxamide, 4,4'-[1,1'-bis(2-phenyl-2-thienyl)methyl]bis(4,2-phenyleneazo)bis[3-hydroxy-N-(4-methoxyphenyl)- (PCI) (CA INDEX NAME)



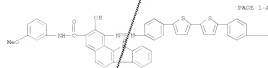
PAGE 1-A

119 ANSWER 189 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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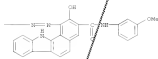


9C1 134591-53-5 CAPLUS
 CN Benzoic acid, 4-[(5-ethyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)



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119 ANSWER 190 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-5

115139101
 An unusual sequence of smectic phases formed by members of the homologous series of 3-fluoro-4-(octyloxy)phenyl 4-[(5-alkyl-2-thienyl)benzoates

AUTHOR(S): Hutchings, J. G.; Hydon, D. J.; Shierazi, S. N. S.; Tajbakhsh, A. R.; Wilson, R. C.; Rammag, J. D.; Dep. Chem. Phys., Nottingham Polytech., Nottingham, NG11 9NS, UK

SOURCE: Molecular Crystals and Liquid Crystals (1991), 199, 327-43

COPYR: BCLCA/5 ISBN: 0026-8941

Journal

LANGUAGE: English

AB: Nine 4-[(5-alkyl-2-thienyl)benzoic acids were converted into esters by reaction with 3-fluoro-4-(octyloxy)phenol. The liquid crystal properties of these esters were investigated by thermal optical microscopy, differential scanning calorimetry, and x-ray diffraction. For the octyl and nonyl homologs the properties of the 3rd smectic phase in the sequence Sm-SC-S3-S4 observed on cooling the isotropic liquid are unusual. The S3 phase is orthogonal with unstructured layers corresponding with a 2nd SA phase. The 4-[(5-alkyl-2-thienyl)benzoic acids also form liquid crystals and, in addition to the Sm phase shown by other homologs, the octyl-decyl oxides give rise to a 2nd, unidentified smectic phase.

IT 134831-43-9F 134831-44-9F 134831-45-9F

134831-46-9F 134831-47-9F 134831-48-9F

134831-49-9F 134831-50-9F 134831-51-9F

RI: 292 (Preparation); STM (Synthetic preparation); PREP (Preparation) (liquid crystal); preparation and transfection temps. of)

9C1 134831-43-5 CAPLUS

CN Benzoic acid, 4-[(5-butyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-44-5 CAPLUS

CN Benzoic acid, 4-[(5-pentyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-45-5 CAPLUS

CN Benzoic acid, 4-[(5-hexyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-46-5 CAPLUS

CN Benzoic acid, 4-[(5-heptyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-47-5 CAPLUS

CN Benzoic acid, 4-[(5-octyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-48-5 CAPLUS

CN Benzoic acid, 4-[(5-nonyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-49-5 CAPLUS

CN Benzoic acid, 4-[(5-decyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-50-5 CAPLUS

CN Benzoic acid, 4-[(5-undecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-51-5 CAPLUS

CN Benzoic acid, 4-[(5-dodecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-52-5 CAPLUS

CN Benzoic acid, 4-[(5-tridecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-53-5 CAPLUS

CN Benzoic acid, 4-[(5-tetradecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-54-5 CAPLUS

CN Benzoic acid, 4-[(5-pentadecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-55-5 CAPLUS

CN Benzoic acid, 4-[(5-hexadecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-56-5 CAPLUS

CN Benzoic acid, 4-[(5-heptadecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-57-5 CAPLUS

CN Benzoic acid, 4-[(5-octadecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-58-5 CAPLUS

CN Benzoic acid, 4-[(5-nonadecyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-59-5 CAPLUS

CN Benzoic acid, 4-[(5-eicosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-60-5 CAPLUS

CN Benzoic acid, 4-[(5-tricosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-61-5 CAPLUS

CN Benzoic acid, 4-[(5-tetracosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-62-5 CAPLUS

CN Benzoic acid, 4-[(5-pentacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-63-5 CAPLUS

CN Benzoic acid, 4-[(5-hexacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-64-5 CAPLUS

CN Benzoic acid, 4-[(5-heptacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-65-5 CAPLUS

CN Benzoic acid, 4-[(5-octacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-66-5 CAPLUS

CN Benzoic acid, 4-[(5-nonacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-67-5 CAPLUS

CN Benzoic acid, 4-[(5-triacontyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-68-5 CAPLUS

CN Benzoic acid, 4-[(5-tetracosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-69-5 CAPLUS

CN Benzoic acid, 4-[(5-pentacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-70-5 CAPLUS

CN Benzoic acid, 4-[(5-hexacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-71-5 CAPLUS

CN Benzoic acid, 4-[(5-heptacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-72-5 CAPLUS

CN Benzoic acid, 4-[(5-octacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-73-5 CAPLUS

CN Benzoic acid, 4-[(5-nonacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-74-5 CAPLUS

CN Benzoic acid, 4-[(5-triacontyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-75-5 CAPLUS

CN Benzoic acid, 4-[(5-tetracosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-76-5 CAPLUS

CN Benzoic acid, 4-[(5-pentacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-77-5 CAPLUS

CN Benzoic acid, 4-[(5-hexacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-78-5 CAPLUS

CN Benzoic acid, 4-[(5-heptacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

9C1 134831-79-5 CAPLUS

CN Benzoic acid, 4-[(5-octacosyl-2-thienyl)-, 3-fluoro-4-(octyloxy)phenyl ester (9C1) (CA INDEX NAME)

119 ANSWER 190 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

119 ANSWER 191 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991254929 CAPLUS
 DOCUMENT NUMBER: 1141256829
 TITLE: Electrophotographic photoreceptors
 INVENTOR(S): Yamada, Yatsuyuki; Ito, Naoto; Nishizawa, Joozo; Yamaguchi, Terachiro
 PATENT ASSIGNER(S): Matsui Toatsu Chemicals, Inc., Japan
 SOURCE: Kokai Tokkyo Koho, 17 pp.
 CODED: JESQAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. SEW. COUNT: 1
 ENTRY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0257972	A	19941113	JP 1009-97629	19950419

PRIORITY APPAR. INFO.:
GI

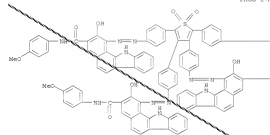
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The single-layer photosensitive layer of the photoreceptor contains also compound I and tetraphenylthiophene II (A = complex group; R₁-R₄ = alkyl, n = 0, 1 (R₁ ≤ n ≤ R₄)). These pos.-charging, single-layer photoreceptors have high performance. Thus, an Al plate was coated with a composition containing poly(methylmethacrylate) 7, I (A = III) 1, IV 7.7 g and solvent and dried to obtain a photoconductor, which was chargeable to 974 V. This voltage decayed to 970 V after 2 s, and the sensitivity (lux-s required for half-decay of voltage on exposure) was 2.4, and the residual voltage was 0.

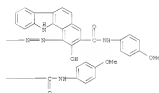
IT 116372-83-9
 RI: INDEX (NAME)
 (charge-generating agent, pos.-charging and single-layer electrophotop. photoreceptor containing)
 RI 116372-83-9 CAPLUS
 CN 118-8enzo[a]carbazole-7-carboxamide, 1,1',1'',1'''-[1,1-dioxido-2,7,4,5-(thiophen-2-yl)tetraakis(4,1-phenyl)hexa-2,2,3,5-thiophenediyl]bis[N-(4-methoxy-2-methylphenyl)-8-phenyl]- (PCI) (CA INDEX NAME)

119 ANSWER 191 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

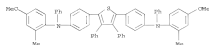


PAGE 1-B



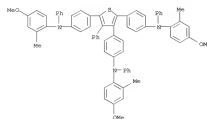
IT 123715-39-8 123715-39-9 134008-74-5
 RI: INDEX (NAME)
 (charge-transferring agent, pos.-charging and single-layer electrophotop. photoreceptor containing)

RI 123715-39-8 CAPLUS
 CN Benzenamine, 4,4'-(7,4-diphenyl-2,3,5-thiophenediyl)bis[N-(4-methoxy-2-methylphenyl)-8-phenyl]- (PCI) (CA INDEX NAME)

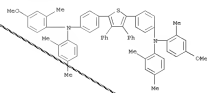


119 ANSWER 191 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RI 123715-39-9 CAPLUS
 CN Benzenamine, 4,4'-(7,4-diphenyl-2,3,5-thiophenediyl)tris[N-(4-methoxy-2-methylphenyl)-8-phenyl]- (PCI) (CA INDEX NAME)

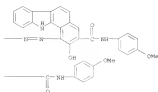


RI 134008-74-5 CAPLUS
 CN Benzenamine, 4,4'-(7,4-diphenyl-2,3,5-thiophenediyl)bis[N-(4-methoxy-2-methylphenyl)-8-phenyl]- (PCI) (CA INDEX NAME)



112 ANSWER 123 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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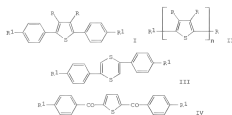
L12 ANSWER 134 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 1991:196310 CARLOS
DOCUMENT NUMBER: 114:196310
TITLE: Electrophotographic photoconductor with tetrakisazo compound as charge-generating agent
INVENTOR(S): Kuroda, Masanji; Batori, Yoshimasa; Furusho, Noboru
PATENT ASSIGNEE(S): Fuji Electric Co., Ltd., Japan
SOURCE: Ger. Offen., 54 pp.

DOCUMENT TYPE:	Pa
LANGUAGE:	Ge
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATIENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 0021353	A1	19900802	DE 1990-10601351	19901118
DE 0021353	C2	19901216		
DE 0021355-4	A1	19900725	DE 1989-10501	19901301
DE 2629229		19910716		
DE 0021376		19901129	US 1990-466581	19901127
DE 0424227	C2	19940333	DE 1990-462427	19901118
PRIORITY AFFIN. INFO.			DE 1989-10501	A 19901119
			DE 1990-10601351	A2 19901118

OTHER SOURCE(S): NARPAT 114:196318
GI



AB An electrophotog. photoconductor is described comprising a photosensitive layer containing a charge-generating agent having the formula I, II, III, or IV [R = H, alkyl, aryl; R1 = $\text{Mn}(\text{NO}_3)_2 \cdot p\text{-H}_2\text{O}$; A = a coupler group; n =

119 ANSWER 134 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

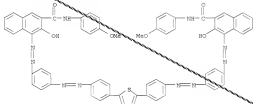
2,3]. The photoconductor has improved charging properties.

IT 133431-06-0 133431-27-3

RL: US25 (Uses)
(as charge-generating agent for electrophotog. photoconductor)

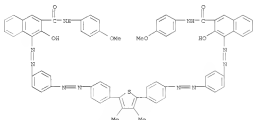
323 133431-06-8 CAPLUS

CH 2-Naphthalenecarboxamide,
4,4'-[2,5-thiophenediylbis[4,1-phenyleneazo-6,1-
phenyleneazo]]bis[3-hydroxy-N-(4-methoxyphenyl)- (2CI) (CA INDEX NAME



800 133431-27-3 CAPLUS

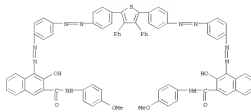
2-Naphthalenecarboxanide, 4,4'-[3,4-dimethyl-2,5-thiophenediyl]bis[4,1-phenyleneazo-4,1-phenyleneazo]]bis[3-hydroxy-N-(4-methoxyphenyl)- (PCI)
(CA INDEX NAME)



123456-29-8 CAPLDB

2-*N*-[4-(4-methoxyphenyl)-3-hydroxyphenyl]-4,4'-bis[3,4-diphenyl-2,5-thiophenediyl]bis(4,1-phenyleneazo)-6,1-phenyleneazide, 4,4'-[3,4-diphenyl-2,5-thiophenediyl]bis[4,1-phenyleneazo-6,1-phenyleneazo]]bis[3-hydroxy-N-(4-methoxyphenyl)-6,1-phenyleneazo]

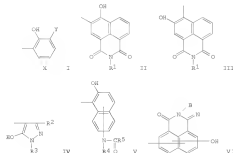
L19 ANSWER 194 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)



L19 ANSWER 135 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:621270 CAPLOS
 DOCUMENT NUMBER: 113122170
 TITLE: Electrophotographic photoreceptor
 INVENTOR(S): Kitahara, Katsushige; Hoshi, Satoshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
 COMB: CRXSM
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. REM. COMNT: 1
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0210460	A	1990-04-19	JP 1989-282201	1989-10-18
PUBLISHED APPL. INFO.			JP 1989-282201	1989-10-18

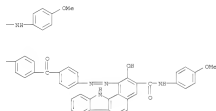
GI



AB The title electrophotographic photoreceptor contains triazole derivative, (AR1)AR2[AR3]AR4AR5 (AR1, AR2, AR3, AR4 = arylene, divalent condensed polycyclic aromatic group, divalent heterocyclic aromatic group AR5 and AR1, AR2 and AR3, AR4 and AR5 may form a ring) L = HCOO, COOH, HSO3, SO3Na, A = 1, 1', 1'', 1''', 1V, COOCH3, COOCH2CH3, V, VI is = aromatic ring, heterocyclic ring Y = COOR, CSOR, CHOR, COOR, COOR, R1 = alkyl, phenyl

R2

L19 ANSWER 136 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
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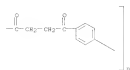


L19 ANSWER 135 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN [Continued]
 = H, lower alkyl, carbanonyl, carbonyl, alkoxy, carbonyl, aryloxy, carbonyl, amino, R3 = alkyl, aryl, heterocyclic, aryl, R4, R5 = H, alkyl, aryl, heterocyclic, aryl, R6 = R3 = H, when Y = COOR, R3 = H, B = divalent aryl, hydrocarbon, divalent H-contg. heterocyclic ring) as a charge carrier-generating material.

IT 130558-10-0
 RI: (R3) (R4) (R5) (R6) (R7) (R8) (R9) (R10) (R11) (R12) (R13) (R14) (R15) (R16) (R17) (R18) (R19) (R20) (R21) (R22) (R23) (R24) (R25) (R26) (R27) (R28) (R29) (R30) (R31) (R32) (R33) (R34) (R35) (R36) (R37) (R38) (R39) (R40) (R41) (R42) (R43) (R44) (R45) (R46) (R47) (R48) (R49) (R50) (R51) (R52) (R53) (R54) (R55) (R56) (R57) (R58) (R59) (R60) (R61) (R62) (R63) (R64) (R65) (R66) (R67) (R68) (R69) (R70) (R71) (R72) (R73) (R74) (R75) (R76) (R77) (R78) (R79) (R80) (R81) (R82) (R83) (R84) (R85) (R86) (R87) (R88) (R89) (R90) (R91) (R92) (R93) (R94) (R95) (R96) (R97) (R98) (R99) (R100) (R101) (R102) (R103) (R104) (R105) (R106) (R107) (R108) (R109) (R110) (R111) (R112) (R113) (R114) (R115) (R116) (R117) (R118) (R119) (R120) (R121) (R122) (R123) (R124) (R125) (R126) (R127) (R128) (R129) (R130) (R131) (R132) (R133) (R134) (R135) (R136) (R137) (R138) (R139) (R140) (R141) (R142) (R143) (R144) (R145) (R146) (R147) (R148) (R149) (R150) (R151) (R152) (R153) (R154) (R155) (R156) (R157) (R158) (R159) 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L19 ANSWER 196 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B



L19 ANSWER 197 OF 250

CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1990-553169 CAPLUS

DOCUMENT NUMBER:

111153169

TITLE:

Novel synthesis of aromatic polyamides by nickel-catalyzed polycondensation of aromatic diisocyanides, an aromatic diamine, and carbon monoxide

AUTHOR(S):

Yoneyama, Masaru; Kenishi, Toru; Kakimoto, Masaki; Imai, Yoshio

CORPORATE SOURCE:

Dep. Org. Polym. Mater., Tokyo, Inst. Technol., Tokyo,

SOURCE:

152, Japan
Macromolecular Chem., Rapid Communications (1990), 11(8), 391-6

DOCUMENT TYPE:

CHEME; REJCH4; ISSN 0173-2603

LANGUAGE:

Journal
EnglishAB - Aromatic polyamides were prepared in the presence of Ni-containing catalysts [NiCl₂, RuCl₂, dichloro(2,2'-bipyridyl)nickel(II)], and 2,2'-bipyridyl/NiCl₂ complexes] by polymerization of bis(4-bromophenyl) ether (I) and bis(4-bromophenyl) ether, m-dibromobenzene (II), or 2,5-bis(4-aminophenyl)-3,6-diphenylthiophene, with CO, using aprotic polar solvents and 1,8-diazabicyclo[5.4.0]-7-undecene as an H₂ scavenger.

Highest viscosity (0.21 dL/g) of poly(amide-imide) was formed at 150°, while that prepared at 180° had viscosity 0.17 dL/g and no polymer was formed at 160°. No appreciable difference was in catalytic activity was observed with respect to the inherent viscosity of the resulting amide. IR and NMR spectra confirmed formation of amide linkages.

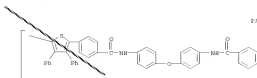
IN 97429-39-3P

RU 298 (Synthetic preparation); PREP (Preparation)

(preparation of, in presence of nickel catalysts)

RE 97429-39-3 CAPLUS

CN Poly[1,4-diphenyl-2,5-thiophenediyl-1,4-phenyleneisocarbonylamino-1,4-phenylene-1,4-phenyleneisocarbonyl-1,4-phenylene] (PC1) (CA INDEX NAME)



PAGE 1-A

L19 ANSWER 198 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B



L19 ANSWER 199 OF 250

CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1990-506194 CAPLUS

DOCUMENT NUMBER:

113106194

TITLE:

Electrophotographic photoconductors using a

Inventor(s):

silicon polymer as a charge-transporting agent
Suzawa, Hiroshi; Nomatake, Haruyuki; Saegusa, Tomoyoshi; Koida, Tetsuhiro; Kobayashi, Mineo; Ito, Masaoichi

PATENT ASSIGNOR(S):

Mitsui Toatsu Chemicals, Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PRIORITY APPL. INFO.:

JP 02018450

A

19980613

JP 1988-168998

19880708

G1

JP 2702160

R2

19980121

JP 1988-168998

19880708

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PRIORITY APPL. INFO.:

JP 02018450

A

19980613

JP 1988-168998

19880708

G1

JP 2702160

R2

19980121

JP 1988-168998

19880708

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PRIORITY APPL. INFO.:

JP 02018450

A

19980613

JP 1988-168998

19880708

G1

JP 2702160

R2

19980121

JP 1988-168998

19880708



AB The photoconductors comprise a conductive support with a photosensitive layer containing an organic S1 compound I (R, R1-9 = H, halo, ether group).

C520 alkyl, alkenyl, aryl which may contain functional group such as CO₂H, NH₂, Cl, OH, etc.; n = 0, pos. integer). The photoconductors showincreased photosensitivity and durability. Thus, an Al plate was coated with a charge-generating layer containing a diene pigment and with a charge-transporting layer containing I (R, R1-3 = Cl, R4-9 = CMe₂, n = 0) to

give a photoconductor.

IN 116372-51-2

RU 116372-51-2 CAPLUS

CN 116372-51-2 CAPLUS

AB The photoconductors comprise a conductive support with a photosensitive layer containing an organic S1 compound I (R, R1-9 = H, halo, ether group). C520 alkyl, alkenyl, aryl which may contain functional group such as CO₂H, NH₂, Cl, OH, etc.; n = 0, pos. integer). The photoconductors show increased photosensitivity and durability. Thus, an Al plate was coated with a charge-generating layer containing a diene pigment and with a charge-transporting layer containing I (R, R1-3 = Cl, R4-9 = CMe₂, n = 0) to give a photoconductor.

IN 116372-51-2

RU 116372-51-2 CAPLUS

CN 116372-51-2 CAPLUS

AB The photoconductors comprise a conductive support with a photosensitive layer containing an organic S1 compound I (R, R1-9 = H, halo, ether group). C520 alkyl, alkenyl, aryl which may contain functional group such as CO₂H, NH₂, Cl, OH, etc.; n = 0, pos. integer). The photoconductors show increased photosensitivity and durability. Thus, an Al plate was coated with a charge-generating layer containing a diene pigment and with a charge-transporting layer containing I (R, R1-3 = Cl, R4-9 = CMe₂, n = 0) to give a photoconductor.

IN 116372-51-2

RU 116372-51-2 CAPLUS

CN 116372-51-2 CAPLUS

AB The photoconductors comprise a conductive support with a photosensitive layer containing an organic S1 compound I (R, R1-9 = H, halo, ether group). C520 alkyl, alkenyl, aryl which may contain functional group such as CO₂H, NH₂, Cl, OH, etc.; n = 0, pos. integer). The photoconductors show increased photosensitivity and durability. Thus, an Al plate was coated with a charge-generating layer containing a diene pigment and with a charge-transporting layer containing I (R, R1-3 = Cl, R4-9 = CMe₂, n = 0) to give a photoconductor.

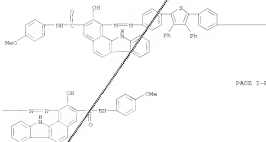
IN 116372-51-2

RU 116372-51-2 CAPLUS

CN 116372-51-2 CAPLUS

112 ANSWER 136 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 108



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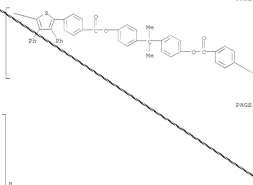
113 ANMER 139 OF 150 CARLOS COPYRIGHT 2007 ACS ON ETH
 ACCESSION NUMBER: 1990:479245 CARLOS
 DOCUMENT NUMBER: 113:79245
 TITLE: Manufacture of heat-resistant aromatic polyesters
 with good mechanical strength
 INVENTOR(S): Yoshio Katsumoto, Masahiko Yonegama, Masaru
 Patent Assignee(s): Tosoh Corp., Japan
 SOURCE: Eur. Pat. Appl., 10 pp.
 COUNTRY: EP/US
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 355840	A2	19900220		
EP 355840	A3	19910014	EP 1989-115707	19900825
KI, HL, DE, FR, CH, IT, NO				
JP 02960919	A	19900703	JP 1988-210549	19890826
DE 363893	B2	19970806		
CA 138594	C	19900910	CA 1989-609466	19890826
US 48864	A	19900910	US 1988-210549	19890826
US 48864	A	19900910	US 1988-210549	A 19890826

The title monotele aromatic model weight polyarylates [GAR]O[CAR]_nO[Gar], Ar, Ar' = bivalent aromatic residue (*n* = 10–100) are prepared in good yield from stable
insensitive reactants of aromatic diols HOAr₂, aromatic dibromides
BrAr₂ and carbon monoxide, in presence of Pd catalysts and organic bases in
organic solvents. Br-[6-(hydroxyethyl) ether 2,5, triphenyl 2,2,5,
1,4-tetraaryl-1,4'-diimino-7-ane, 2,5]-
dichloro triphenyl phosphine oxide, 1,4-diphenyl-2,2,5-triphenyl-1,4'-diimino-7-ane
solution 0.10 mole in 10 mL PPhCl were heated 1.5 hr at 115°C in CO
pressure 4.0 MPa, cooled down to 40°C PPhCl, and poured into 40 mL MeOH to give
polyarylate with 99% yield.
IT 104909-32-4P 128382-4A TP 128382-0T GP
RL PREP (Preparation of palladium catalysts for)
RHS 104909-32-4 CARCIS
PREP (Preparation of 1,4-bis(hydroxyethyl)-4-phenylenebenzoyl-1,4-
phenylene-1,4'-diimino-7-ane, 1,4-phenyleneoxybenzoyl-1,4-phenylene-
1,4'-diimino-7-ane)

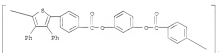
112 ANSWER 139 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-2



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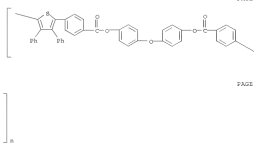
F00 128382-04-7 CAPLUS
 C02 Poly[(3,4-diphenyl-2,5-thiophenediyl)-1,4-phenylene-carbonyloxy-1,3-phenylene-oxy-carbonyl-1,4-phenylene] (PCI) (CA INDEX NAME)



IN 120382-07-0 CAPLUS
 CN Poly[13,4-diphenyl-2,5-thiophenediyl]-1,4-phenylene carbonyloxy-1,4-phenyleneoxy-1,4-phenylene carbonyloxy-1,4-phenylene] (PCI) (CA INDEX NAME)

L12 ANSWER 122 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 1-2

Searched by Jason M. Nolan, Ph.D.

119 ANSWER 200 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1990:414902 CAPLUS
 DOCUMENT NUMBER: 11714802
 TITLE: Osmonium salt compounds and tetrakisazo compounds and manufacture thereof
 INVENTOR(S): Yamada, Yasuyuki; Ito, Naoto; Niishikawa, Isao; Yanaguchi, Tetsuro
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY AND HUM. COUNTRY: J
 PATENT INFORMATION: J

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0110477	A	19890914	JP 1988-277303	19881104
JP 0404027	B	19940311		
FR108717 APPL. INFO.			JP 1987-290700	A1 19871119

02



AB The title salts have the general formula Q⁺-p-C6H4Q⁺ X⁻14 (Q = thiophene-2,3-diylidene-3,4,5-triyl; X⁻ = anion) which are coupled with 1 at o-position with respect to OR, 2 = (un)substituted carbo- or heterocyclic member; Y = -CONH2, CONH(CH3), R2 = (un)substituted

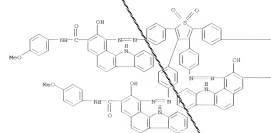
carbo- or heterocyclic group; R2 = R, (un)substituted alkyl, phenyl; R3 = (un)substituted carboxylic group; R4 = R, alkyl, (un)substituted phenyl; R5 = ring member; to give the title tetrakisazo compds. Q⁺-p-C6H4(R1)4 useful as charge generator in electrophot. photoconductors.

IT 116372-83-9P 117637-34-7P
 R1, R2 (Industrial manufacture) PREP (Preparation)
 (manufacture and use of, as charge generator in electrophot. photoconductors)

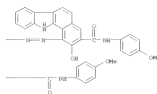
RI 116372-83-9 CAPLUS
 CH 118-Phenyl[acridine-7-carboxamide, 1,1',1'',1'''-[1,3-dioxo-2,3,4,5-thiophenetetratetrakis(4,1-phenylene)]tetrakis[2-hydroxy-N-(4-methoxyphenyl)-] (PCI) (CA INDEX NAME)

119 ANSWER 200 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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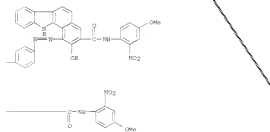
RI 117637-34-7 CAPLUS
 CH 118-Benzo[acridine-3-carboxamide, 1,1',1'',1'''-[1,3-dioxo-2,3,4,5-thiophenetetratetrakis(4,1-phenylene)]tetrakis[2-hydroxy-N-(4-methoxy-2-nitrophenyl)-] (PCI) (CA INDEX NAME)

119 ANSWER 200 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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119 ANSWER 200 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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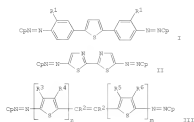


L13 ARKEMA 201 01 250 CARLOS COPYRIGHT 2007 ACE on STN
 ACCESSION NUMBER: 1990:24924 CARLOS
 DOCUMENT NUMBER: 112439204
 TITLE:
 Kinetographic photoconductor with bisazo-
 compound as charge generator
 Hattori, Yoshinaka Furusho, Noboru
 Inventor: Kyocera Corp., Ltd., Japan
 SOURCE: Ser. Offcn., 44 pp.
 CODE: G06K06
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

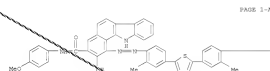
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3934467	A1	19891214	DE 1989-3918463	19890406
DE 3934463	C2	19890316		
JP 02684660	A	19900526	JP 1989-50771	19890302
JP 285403	B2	19970309		
US 4935323	A	19900619	US 1989-361660	19890602
JP 1988-140874		1988-140874	A	19890408

JY 1988-163018	A	19880630
JY 1988-163020	A	19880630
JY 1988-163021	A	19880630
JY 1989-50771	A	19890302

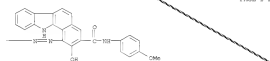
OTHER SOURCE(S): MARPAT 112-243024
GT



119 ANSWER 203 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
4,4'-phenyleneazo]]bis[2-hydroxy-N-(4-methoxyphenyl)- (9CI) [CA INDEX
NAME]



PART 1-3

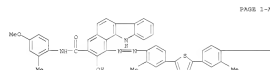


PAGE 1-2

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920 127294-60-0 CAPLUS
CN 118-Benzo[a]carbazole-3-carboxamide,
2,2'-(2,5-thiophenediylbis[2-methyl-
4,1-phenylene]azo)bis[2-hydroxy-N-(4-methoxy-2-methylphenyl)amino]
INDEX NAME)

```



PAGE 1-2

L19 ANIMER 2011 OF 250 CAPSULE COPYRIGHT 2007 ACS on STM (Continued)

A8 An electrophotographic photoconductor is described containing a charge-generating agent from a1 bisazo compound of the structure I, II, III, and/or Cq(R1)R2Ar2Ar3INCT [Cp = a coupling group; R1 = H, alkyl, alkoxy, carbamoyl; Ar1 = thiophene, thiazolylene; R2 = phenylene, thiophylene; Ar2 = phenylene, thiophylene; R3 = H, alkyl, alkoxy, aromatic hydrocarbon group, aromatic heterocyclyl; n, n = 1-3].

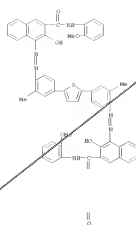
The material has improved photosensitivity.

```

127297-45-4
RLS USES (Uses)
  (a) 3-phenyl-2-propanone; 4-phenyl-2-propanone; 2-phenyl-2-propanone

```

IN 127296-55-3 CAPLUS
 CH 2-Baphthalencarboxanide, 4,4'-[2,5-thiophenediylbis[2-methyl-4,1-phenylene]azo)]bis[3-hydroxy-N-(2-methoxyphenyl)- (9CI) (CA INDEX NAME

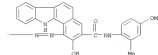


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RN 127294-59-7 CAPLOS
 CN 118-Benzo[a]carbazole-3-carboxanide,
 1,1'-[2,5-thiophenediylbis[(2-methyl-

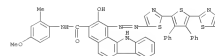
PAGE 2-A

119 ANSWER 201 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)

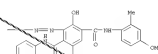


PAGE 1-8

IN 127297-45-4 CAPLUS
 CH 118-Benz[a]carbazole-3-carboxamide, 1,1'-[3,4-diphenyl-2,5-
 thiophenediyl]bis[2,5-thiazaolediylazo]bis[2-hydroxy-N-[4-methoxy-2-
 methylphenyl]-9CI] (CA INDEX NAME)



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参考文献 3—5

119 ANSWER 222 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 19901207872 CAPLUS
 DOCUMENT NUMBER: 1121207872
 TITLE: Electrophotographic photosensor with
 photoconductive layer containing thienyl group-containing Schiff
 bases
 INVENTOR(S): Furuda, Masami; Makamura, Yachi; Koshi, Nobuo
 PATENT ASSIGNOR(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODES: J0004F
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

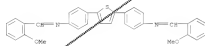
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01217854	A	19990922	JP 1998-64614	19990217
PRIORITY APPL. INFO.			JP 1998-64614	19990217

AB In the electrophotog. photosensor, the photoconductive layer contains
 21 thienyl group-containing Schiff base as a charge-transporting agent.
 The photosensor shows improved chargeability, durability, and
 sensitivity.

BT 126793-16-6 126793-17-7 126793-22-4
 RI USES (Uses)
 RI 126793-16-6 CAPLUS
 CH Benzenamine, 4,4'-(2,5-thiophenediyl)bis[N-[(4-methoxyphenyl)methylene]-2-
 methyl- (PC1) (CA INDEX NAME)



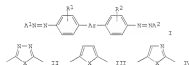
RI 126793-21-7 CAPLUS
 CH Benzenamine, 4,4'-(2,5-thiophenediyl)bis[N-[(2-methoxyphenyl)methylene]-
 (PC1) (CA INDEX NAME)



119 ANSWER 203 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990188951 CAPLUS
 DOCUMENT NUMBER: 112188951
 TITLE: Electrophotographic photoconductors containing
 charge-generating diazo pigments
 INVENTOR(S): Shilko, Yasuaki; Uehara, Masahige; Matsumoto,
 Masaharu
 PATENT ASSIGNOR(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
 CODES: J0004F
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01265018	A	19990419	JP 1987-257375	19871014
PRIORITY APPL. INFO.			JP 1987-257375	19871014

GI



AB The charge-generating layers of electrophotog. photoconductors contain
 unsym. diazo pigments of the formula I (R1, R2 = H, alkyl having
 optional

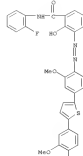
substituents, alkoxy, halo; A1, A2 = coupler having phenolic OH; Ar = Z1,
 Z2, ZV wherein X = O, S).
 BT 126619-10-3 126619-31-2 126619-41-8
 RI 126619-33-7
 RI USES (Uses)
 RI 126619-33-7 CAPLUS
 CH 2-Rapthaleteric acid, 6-[[4-[5-[4-[[3-[[[12-
 fluorophenyl]amino]carbonyl]-2-hydroxyphenyl]azo]-3-methoxyphenyl]-2-
 thienyl]-2-methoxyphenyl]azo]-3-hydroxy-N-(4-methoxyphenyl)- (PC2) (CA
 INDEX NAME)

RI 126619-35-0 CAPLUS
 CH 118-Benzene[4]carboxamide, 1-[[[3-fluoro-4-[5-[2-fluoro-4-[[3-
 [[12-fluorophenyl]amino]carbonyl]-2-hydroxy-128-Benzene[4]carboxyl-4-
 yl]azo]phenyl]-2-thienyl]phenyl]azo]-2-hydroxy-N-(4-methoxyphenyl)- (PC2)
 (CA INDEX NAME)

119 ANSWER 222 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RI 126793-22-4 CAPLUS
 CH Benzenamine, 4,4'-(2,5-thiophenediyl)bis[N-[(4-methoxyphenyl)methylene]-
 (PC1) (CA INDEX NAME)



119 ANSWER 203 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RI 126619-35-0 CAPLUS
 CH 118-Benzene[4]carboxamide, 1-[[[3-fluoro-4-[5-[2-fluoro-4-[[3-
 [[12-fluorophenyl]amino]carbonyl]-2-hydroxy-128-Benzene[4]carboxyl-4-
 yl]azo]phenyl]-2-thienyl]phenyl]azo]-2-hydroxy-N-(4-methoxyphenyl)- (PC2)
 (CA INDEX NAME)

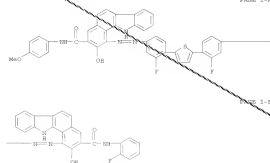


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L19 ANSWER 203 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)

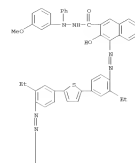
PAGE 1-A



IN 126619-41-8 CAPLOS
 CN 2-Naphthyl-1-carboxylic acid, 4-[[2-ethyl-4-[[5-[[7-ethyl-4-[[3-[[2-12-fluorophenyl]-2-phenyl]pyridine]carboxyl]-2-hydroxy-1-pyridyl]phenyl]-2-thienyl]phenyl]azo]-2-hydroxy-N-(4-methoxyphenyl)-2-[[2-methoxyphenyl]-3-phenyl]hydrazide (PCI) (CA INDEX NAME)

L19 ANSWER 203 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)

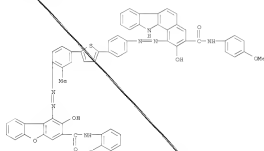
PAGE 1-A



IN 126666-99-7 CAPLOS
 CN 118-Benzo[a]carbazole-7-carboxamide, 1-[[4-[[[4-[[3-[[2-fluorophenyl]amino]carbonyl]-2-hydroxy-1-dimethylamino]azo]-2-methylphenyl]-2-thienyl]phenyl]azo]-2-hydroxy-N-(4-methoxyphenyl)- (PCI) (CA INDEX NAME)

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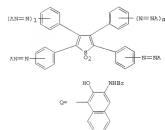
L19 ANSWER 203 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)



L19 ANSWER 204 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 1999112095 CAPLOS
 DOCUMENT NUMBER: 13112095
 TITLE: Preparation of bis-, tri- and tetraazao derivatives of tetraphenylthiophene-1,1-dioxide as charge-generating materials for electrophotographic receptors
 INVENTOR(S): Yamada, Yumihiko; Nishizawa, Isao; Ito, Kento; Yamaguchi, Terahiro
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
 CUBOH: JCOUAF
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. -----
 KIND DATE APPLICATION NO. DATE

 JP 01107267 A 19890425 JP 1987-263704 19871021
 PRIORITY APPL. INFO.: JP 1987-263704 19871021
 GI



AB Electrophotog. receptors containing at least one of tetraphenylthiophene-1,1-dioxide deriva. 1 (D = coupler residue; 1, m = 1, 2) is a photosensitive layer on an electroconductive support are described as well as preparation of 1 and imaging process for high durability, high sensitivity, and broad absorbance characteristic in visible region. Thus, diazotization of 5-bis(4-aminophenyl)-7,4-diphenylthiophene-1,1-dioxide by NaNO2 in aqueous H2SO4 gave a tetrazonium salt which was coupled with Naphthal AS in DMF

119 ANSWER 204 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)

the presence of AcOH to give 79.18 I (A = 4-Q, 1 = m = 0).

116372-64-8P 116372-83-8P 116372-88-6P

124974-31-1P

SH (Synthetic preparation); TM (Technical or engineered material)

PP (Preparation); UMS (Ums)

Preparation of, as charge-generating material for electrophotog.

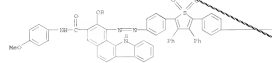
recompos

116372-64-8 CAPLOS

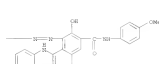
116-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,4,5-thiophenediyl]bis[4,2-phenylene]bis[2-hydroxy-N-(4-methoxyphenyl)-

(9C1) (CA INDEX NAME)

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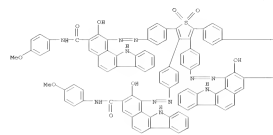
116372-83-9 CAPLOS

116-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,4,5-thiophenediyl]tetra[4,2-phenylene]bis[2-hydroxy-N-(4-methoxyphenyl)-

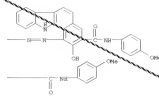
(9C1) (CA INDEX NAME)

119 ANSWER 204 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)

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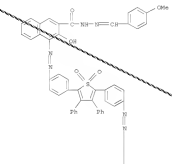


116372-88-6 CAPLOS

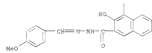
2-Naphthalene-1-carboxylic acid, 4,4'-[1,3-dioxido-2,4,5-thiophenediyl]bis[4,2-phenylene]bis[2-hydroxy-N-(4-methoxyphenyl)ethynylene]hydrazide (9C1) (CA INDEX NAME)

119 ANSWER 204 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)

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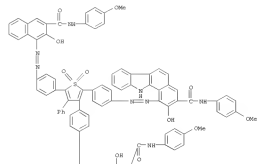


116374-18-1 CAPLOS

116-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,4,5-thiophenediyl]bis[4,2-phenylene]bis[2-hydroxy-N-(4-methoxyphenyl)ethynylene]hydrazide (9C1) (CA INDEX NAME)

119 ANSWER 204 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM (Continued)

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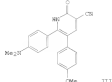
PAGE 2-A



119 ANSWER 205 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 111118654
 DOCUMENT NUMBER: 111118654
 TITLE: Preparation of
 5,6-di(heteroaryl)-1,2-dihydro-2-oxo-3-
 pyridinecarboxylates as antibacterial agents
 INVENTOR(S): Ruffo, Tefayez Noor, James V.; Thorsett, Eugene D.
 PATENT ASSIGNEE(S): March and Co., Inc., USA
 SOURCE: Eur. Pat. Appl., 43 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. NUM. COUNT: 1
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 104020	A1	19990222	EP 1988-201974	19880909
JP 104020	A3	19991228		
JP 104020	A	19990222	JP 1988-211850	19880917
JP 1122949	A	19990222	JP 1987-98422	19870918

PRIORITY APPL. INFO.:
 OTHER SOURCE(S): NABPAT 111:118654
 CI:



AB The title compds. [I; R1 = H, C1-6 alkyl, C2-6 alkenyl, C7-14 aralkyl, etc.; R2, R3 = (substituted) aryl containing 6, 10, or 14 ring C atoms, heteroaryl, etc.; R4 = H, C1-6 alkyl, a protecting ester group, a pharmacologically acceptable cation], useful for treating bacterial infections, are prepared. A mixture of ethanone derivative II [preparation given] and

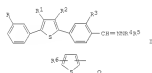
119 ANSWER 206 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (MeO)2CHCH2 in DMF was heated at 25°, cooled, HOCH2COCH2 and NaOH added, the soln. was added to a slurry of NaH in DMF and heated at 95° to give III, which was heated in 4 M H2SO4 at 120° to give the acid I [R1 = R4 = H, R2 = 4-(MeO)CH2CH2 R3 = p-ROCC6H4] (IV). Acid hydrolysis of IV with 48% HBr gave phenolic deriv. I (R3 = p-HOCC6H4, other groups as in IV), which showed min. inhibitory concn. of 0.25 µg/ml against *Staphylococcus aureus* NB 2645.
 IT 124046-13-29
 RI ACT (Reactant); SHN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 RI [Preparation and reaction of, in preparation of (antibacterial)]
 RI 124046-13-3 CAPLUS
 CH Ethanone, 1-[4-[2,2'-bithiophen]-5-ylmethyl]-2-(4-methoxyphenyl)- (9C1)
 (CA INDEX NAME)



119 ANSWER 206 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 111118658
 DOCUMENT NUMBER: 111118658
 TITLE: Electrophoretographic photoreceptors containing a
 hydrazine charge-transporting agent
 INVENTOR(S): Furuda, Masami; Nakamura, Yoichi; Koabe, Noboru
 PATENT ASSIGNEE(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kohai Tokyo Koho, 7 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY AC. NUM. COUNT: 1
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01164951	A	19990629	JP 1987-323237	19871221
JP 01164951	A	19990629	JP 1987-323237	19871221

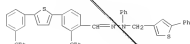
PRIORITY APPL. INFO.:
 CI:



AB Electrophoretographic photoreceptors exhibiting good sensitivity and
 cyclability have a photosensitive layer containing 21 compds.
 selected from hydrazones 1 (R, R3 = OH, alkoxy R2, R2 = H, halo, alkyl,
 alkoxy, R2, allyl, (substituted) aryl, amino; R4 = (substituted) aryl;
 R5 = thienyl; group Q, (substituted) aryl; R6 = H, halo, alkyl, alkoxy,
 R2, allyl, (substituted) aryl, amino). Thus, an Al-deposited polycarbonate
 film was coated with a composition containing metal-free 21thiazopyranes,
 1 (R = R3
 = CH2; R1 = R2 = H, R4 = R5 = Ph, and Nylon 200 (polyester resin) to
 give
 a photoreceptor, which showed high sensitivity toward both white light
 and
 a light of 365 nm.
 IT 125582-21-6 125582-28-7
 RI US28 (Inventor)
 RI [Charge-transporting agent, for electrophoretic photoconductor, for
 repeated use]
 RI 125582-21-6 CAPLUS
 CH Benzaldehyde, 2-ethoxy-4-[5-(3-methoxyphenyl)-2-thienyl]-,
 [4-methoxyphenyl] (phenylmethyl)hydrazones (9C1) (CA INDEX NAME)

119 ANSWER 206 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

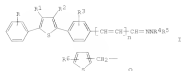
RI 125582-21-6 CAPLUS
 CH Benzaldehyde, 2-ethoxy-4-[5-(3-ethoxyphenyl)-2-thienyl]-,
 phenyl[5-(phenyl-3-thienyl)methyl]hydrazones (9C1) (CA INDEX NAME)



119 ANSWER 207 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:108567 CAPLOS
 DOCUMENT NUMBER: 112108567
 TITLE: Electrophotographic photoreceptors containing a
 hydrazone charge-transporting agent
 INVENTOR(S): Suzuki, Masami; Nakamura, Yoshio; Kondo, Nobuo
 PATENT ASSIGNOR(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNTRY: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0214949	A	19930629	JP 1987-023235	19871221
PRIORITY APPL. INFO.:			JP 1987-023235	19871221

GI

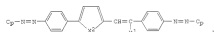


AB Electrophotog. photoreceptors exhibiting good sensitivity and
 reproducibility have a photosensitive layer containing 21 hydrazones 1
 [R₁, R₂, R₃, R₄ = H, halo, alkyl, alkoxy, OH, aryl, NO₂, (substituted)
 aryl, (substituted) amino; R₅ = (substituted) aryl; R₆ = (substituted)
 alkyl, thioether group; n = 0, halo, alkyl, alkoxy, OH, aryl, NO₂,
 (substituted) aryl, (substituted) amino; n = 1, 2]. These an
 Al-deposited polyester film was coated with a composition containing metal-free
 phthalocyanine.
 1 (R₁ = R₂ = R₃ = R₄ = R₅ = R₆ = Ph; n = 1), and Nylon 200 (polyester
 resin) to give a photoreceptor, which showed high sensitivity toward both
 white light and a light of 780 nm.
 IT 121592-42-5
 RI: USLS (Uses):
 (charge-transporting agent, for electrophotog. photoreceptor, for
 repeated use)
 RI 121592-42-5 CAPLOS
 CH 2-Tropenyl, 3-[2-hydroxy-6-[3-(3-hydroxyphenyl)-2-thienyl]phenyl]-,
 [4-methoxyphenyl] [phenylethyl]hydrazones (9CI) (CA INDEX NAME)

119 ANSWER 208 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:108568 CAPLOS
 DOCUMENT NUMBER: 112108568
 TITLE: Electrophotographic photoreceptor layer containing
 bisazo compound as charge-generating substance
 INVENTOR(S): Suzuki, Shinichi; Fukawa, Hiroko; Shibata, Toyoko;
 Takagi, Takahiro; Sasaki, Osamu
 PATENT ASSIGNOR(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNTRY: 1
 PATENT INFORMATION:

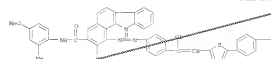
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0217919	A	19990717	JP 1988-2077	19880108
PRIORITY APPL. INFO.:			JP 1988-2077	19880108

GI

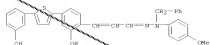


AB The photoreceptor layer on an elec. conductive support contains a bisazo
 compound 1 [Cp = complex residue; R₁ = H, CH₃, halo and R₂ = H, CH₃, O, S,
 as a charge-generating substance.
 IT 121591-91-9
 RI: USLS (Uses):
 (charge-generating substance, electrophotog. photoreceptor from)
 RI 121591-91-9 CAPLOS
 CH 118-Benzo[a]carbazole-3-carboxamide,
 1-[[4-[3-[2-chloro-2-(4-[2-hydroxy-2-
 [(4-methoxy-2-methylphenyl)amino]carbonyl]-118-benzo[a]carbazol-1-
 yl]azo]phenyl]ethenyl]-2-thienyl]phenyl]azo-2-hydroxy-N-(4-methoxy-2-
 methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

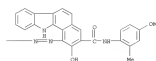


119 ANSWER 207 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

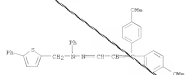


119 ANSWER 208 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B



119 ANSWER 211 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 and THF, dried, anoxone charged to show a surface potential of 600 V,
 exposed with white light to show a residual potential of 60 V and a
 sensitivity (R₂) of 4-3 sec.
 IT 124191-99-1
 RX INDEX NAME)
 agent electrophoretic photoconductor containing charge carrier-transporting
 iron, for high sensitivity and excellent characteristics in cyclic
 use)
 RX 124191-99-1 CAPLUS
 CH 2-Propenal, 3,3-bis[4-(methoxyphenyl)-, phenyl][5-phenyl-2-
 (methoxy)methyl]pyrazolone (PCI) (CA INDEX NAME)



119 ANSWER 211 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:2625 CAPLUS
 DOCUMENT NUMBER: 11212625
 TITLE: 2-Substituted ethynylthiophene pesticides
 INVENTOR(S): Buckart, Susan E.; Phillips, Richard B.; South, David M.
 PATENT ASSIGNOR(S): PMC Corp., USA
 SOURCE: U.S.; 6 pp. Cont.-in-part of U.S. Ser. No. 859,940,
 abandoned.
 CUBIN: US2625
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 PUBLISHER: MCM. COMM. 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4826829	A	19890502	US 1980-165110	19800709
CN 87102450	A	19890406	CN 1987-102400	19870707
SA 8705424	A	19890230	SA 1987-1426	19870703

PRIORITY APPL. INFO.: US 1986-089040 A2 19860703

OTHER SOURCE(S): CASREACT 112:2625; MAFPAT 112:2625

CI



AB The ethynylthiophenes I [R, R2 = (un)substituted Ph, thieryl or naphthyl;
 R1 = H, Me] are prepared as acaricides and insecticides. A mixture of
 5-formyl-2-phenylthiophene (preparation given) 40-80 14-
 chlorophenyl)chloromethylphosphonate (preparation given), DMF, and NaOMe

was stirred for 18 h, to give 1-(5-phenylthien-2-yl)-2-chloro-2-(4-
 chlorophenyl)ethane, which was refluxed with tert-BuOK in THF, to give
 1-(5-phenylthien-2-yl)-2-(4-chlorophenyl)ethyne (II). Exposure to 52 ppm
 II was lethal to two-spotted spider mite (Tetranychus urticae). A
 wettable powder contained 1-(5-methyl-2-(2-methoxy-5-yl)-2-(4-1-
 methylthiophenyl)ethynyl)ethyne 50.0, attapulgite 22.0, kaolin 220 and Na salt
 of calcium dodecyl sulfate 6.0.

IT 115219-74-4P 115219-75-5P 124039-94-4P
 124039-99-9P 124039-03-8P 124039-05-6P
 124039-20-3P

RI: AC2 (Agrochemical use); IMC (Biological activity or effector, except
 adversely); B00 (Biological study, unclassified); B01 (Synthetic
 preparation); B10 (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as acaricide and insecticide)
 RX 115219-74-4 CAPLUS
 CH Thiophene, 2-[[4-(1-methylethoxy)phenyl]ethynyl]-5-phenyl- (PCI) (CA

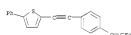
119 ANSWER 211 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 INDEX NAME)
 RX 115219-75-5 CAPLUS
 CH Thiophene, 2-[[4-(phenyl)phenyl]ethynyl]-5-phenyl- (PCI) (CA INDEX NAME)



RX 124039-94-4 CAPLUS
 CH Thiophene, 2-[[4-(methoxyphenyl)ethynyl]-5-phenyl- (PCI) (CA INDEX NAME)



RX 124039-99-9 CAPLUS
 CH Thiophene, 2-[[4-(1-methylethoxy)phenyl]ethynyl]-5-phenyl- (PCI) (CA INDEX NAME)

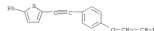


RX 124039-03-8 CAPLUS
 CH Thiophene, 2-[[4-(ethoxyphenyl)ethynyl]-5-phenyl- (PCI) (CA INDEX NAME)



RX 124039-05-0 CAPLUS
 CH Thiophene, 2-[[4-[2-(1-methylethoxy)phenyl]ethynyl]-5-phenyl- (PCI) (CA INDEX NAME)

119 ANSWER 211 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RX 124039-20-3 CAPLUS
 CH Thiophene, 2-[[3-(methoxyphenyl)ethynyl]-5-phenyl- (PCI) (CA INDEX NAME)



L19 ANSWER 212 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)
 ACCESSION NUMBER: 1999:622064 CAPLOS
 DOCUMENT NUMBER: 11122264
 TITLE: Tetraphenylthiophene derivative and electrophotographic photoceptor containing same
 INVENTOR(S): Tanaka, Kishio; Mochizuki, Tetsuo; Tanaka, Tetsuyuki; Itoh, Hisato; Yamaguchi, Akahiro; Nakatani,
 Masahito
 PATENT ASSIGNMENT(S): Matsui, Tetsuo Chemicals, Inc., Japan
 SOURCE: Eur. Pat. Appl., #9 pp.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 112273	A2	19990214	EP 1988-710700	19881114
EP 11273	A3	19991205		
EP 11273	BL	19940504		
EP 11273	BL	19940504		
JP 01290164	A	19891110	JP 1988-264106	19881024
US 4941443	A	19901016	US 1988-272371	19881117
US 5021343	A	19910611	US 1990-539214	19900716
			JP 1987-289311	A 19871217
			JP 1987-316019	A 19871216
			JP 1988-2459	A 19880111
			JP 1988-3685	A 19880113
			US 1988-272371	A3 19881117

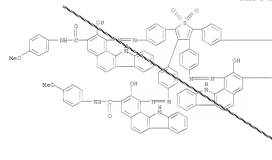
OTHER SOURCE(S): MARPAT 111:222064
 US

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

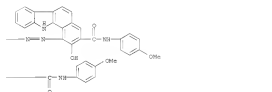
AB A tetraphenylthiophene derivative [I], R1, R2 = alkyl, aralkyl; R1 and R2 may be linked together with the N atom to form a ring; 1, R, R, = 0, 1; 1, 2, 3, 4, and an electrophotographic photoceptor with a charge-transport agent from I and a selected charge-generating agent (preferably aryl) are claimed. Thus, 2,5-bis(4-aminophenyl)-3,4-diphenylthiophene and iodobenzene were reacted to obtain I, A photoceptor containing I (R1, R2 = Ph, 1 = 1; m = n = 0) and I had excellent elec. properties.
 IT 116712-66-8 116712-67-9 116715-41-3
 R1: US85 (Uses)
 (as charge-generating agent in electrophotog. photoceptor)

L19 ANSWER 212 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

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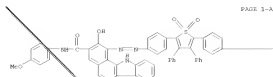
PAGE 1-B



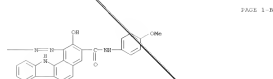
AB 123715-41-3 CAPLOS
 CN 2-Methyl-3-benzothiazol-4-yl-4,4',4''-[[1,3-dioxido-6-phenyl]-2,3,5-thiophenyl]tris[4,1-phenyleneazo]tris[2-hydroxy-N-(4-methoxyphenyl)]-(PCI) (CA INDEX NAME)

L19 ANSWER 212 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)
 BR 116712-46-8 CAPLOS
 CN 118-Benzo[a]carbazole-3-carboxamide, 1,1'-[[1,3-dioxido-2,3,4,5-thiophenediyl]bis[4,1-phenyleneazo]]bis[2-hydroxy-N-(4-methoxyphenyl)]-(PCI) (CA INDEX NAME)

PAGE 1-A



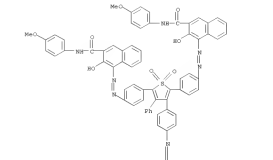
PAGE 1-B



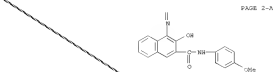
BR 116712-83-9 CAPLOS
 CN 118-Benzo[a]carbazole-3-carboxamide, 1,1'-[[1,3-dioxido-2,3,4,5-thiophenediyl]bis[4,1-phenyleneazo]]bis[2-hydroxy-N-(4-methoxyphenyl)]-(PCI) (CA INDEX NAME)

L19 ANSWER 212 OF 250 CAPLOS COPYRIGHT 2007 ACS ON STN (Continued)

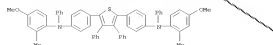
PAGE 1-A



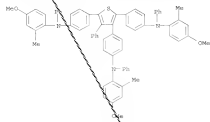
PAGE 2-A



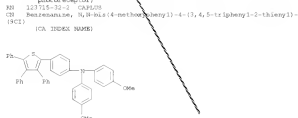
IT 123715-39-8 123715-39-9
 R1: US85 (Uses)
 (as charge-transport agent in electrophotog. photoceptor)
 BR 123715-39-8 CAPLOS
 CN Benzenamine, 4,4'-[[3,4-diphenyl-2,5-thiophenediyl]bis[N-(4-methoxy-2-methylphenyl)-4-phenyl]- (PCI) (CA INDEX NAME)



119 ANSWER 212 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 RI 127115-32-9 CAPLUS
 CI Isocyanamide, 4,4',4''-(4-phenyl-2,3,5-trihydroxyphenyl)tris[4-(4-methoxy-2-methylphenyl)-3-phenyl]- (PCI) (CA INDEX NAME)



IT 127115-32-9
 RI 127115-32-9 CAPLUS
 CI Isocyanamide, 4,4',4''-(4-phenyl-2,3,5-trihydroxyphenyl)tris[4-(4-methoxy-2-methylphenyl)-3-phenyl]- (PCI) (CA INDEX NAME)

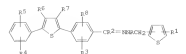


119 ANSWER 213 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1111205447
 DOCUMENT NUMBER: 1989-605447 CAPLUS
 TITLE: Electrophotographic photosensors containing hydrazone compound as charge-transporting agent
 INVENTOR(S): Furuda, Masami; Nakamura, Yoichi; Kohno, Noboru
 PATENT ASSIGNEE(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 COBRI: JF0046
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01107422	A	1989-04-25	JP 1987-265114	1987-12-10

PRIORITY AFFIL. INFO.:

GI



AB Electrophot. photosensors have a photosensitive layer containing, as a

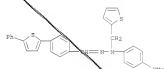
charge-transporting agent, a hydrazone compound of the structure I [R = (substituted) aryl; R1-R8 = H, halo, alkoxy, alkyl, RO2, OH, aryl, (substituted) amine]. The photosensors exhibit good sensitivity and cyclability. Thus, an Al-coated polyester film was coated with a composition containing metal-free phthalonitrile, I (R = Ph; R1-R8 = H), and Nylon

200 (polyester resin) to give a photosensor showing high sensitivity in both pos. and neg. charging.

IT 127521-25-5
 RI 127521-25-5 CAPLUS
 CI (charge transporting agent, for electrophot. photosensor)

CH Benzaldehyde, 4-(5-phenyl-2-thienyl)-, (4-methoxyphenyl)(2-thienylmethyl)hydrazone (PCI) (CA INDEX NAME)

119 ANSWER 213 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

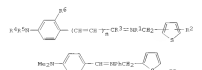


119 ANSWER 214 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 111144058
 DOCUMENT NUMBER: 1989-144058 CAPLUS
 TITLE: Hydrazone charge carrier-transporting agents for electrophotographic photosensors
 INVENTOR(S): Furuda, Masami; Nakamura, Yoichi; Furusho, Noboru
 PATENT ASSIGNEE(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Ger. Offen., 62 pp.
 COBRI: JF0046
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3835108	A1	1989-04-27	DE 1988-3835108	1988-12-14
DE 3835108	C2	1993-10-28		
JP 01102469	A	1989-04-20	JP 1987-260531	1987-12-15
JP 05024507	B	1993-04-08		
JP 01107263	A	1989-04-25	JP 1987-265112	1987-12-10
JP 01107262	A	1989-04-25	JP 1987-265113	1987-12-10
JP 01107264	A	1989-04-25	JP 1987-265115	1987-12-11
JP 01107265	A	1989-04-25	JP 1987-265116	1987-12-11
JP 01152467	A	1989-06-14	JP 1987-311312	1987-12-29
US 4957827	A	1990-09-18	US 1988-257260	1988-12-13
			JP 1987-260531	A 1987-12-15
			JP 1987-265112	A 1987-12-10
			JP 1987-265113	A 1987-12-10
			JP 1987-265115	A 1987-12-11
			JP 1987-265116	A 1987-12-11
			JP 1987-311312	A 1987-12-29

OTHER SOURCE(S): MARPAT 111:144058

GI



AB Electrophot. photosensors having a high photosensitivity and excellent

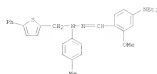
119 ANSWER 214 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
characteristics for continuous use contain a hydrazone of the structure I
(R¹ = aryl, that can have 21 substituents; R²-R⁴ = H, halogen,
alkyl, allyl, CN, NO₂, alkoxy, aryl, that can have 21 substituents,
or R¹ = H, n = 0 or 1) as a charge carrier-transporting agent. An
Al₂O₃ polymer film was coated with a dispersion onto, milled
metal-free polycyanine, 22, Nylon 200 (polyester), and THF, dried, and
tested in an electrochromically working recording paper teaching app. to
show a white light photo sensitivity (R1/2 value) of 5.2 sec-1.

27 122877-89-9 122877-90-3 122877-91-2 122877-92-6
R1: ODS (10nm)

agent (electrophoretic, photoconductive) containing charge carrier-transporting
(from)

30 122877-89-9 CAPLUS

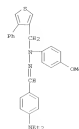
CH Benzaldehyde, 4-(diethylamino)-2-methoxy-, 1-methylphenyl-1-[(5-phenyl-2-
thienyl)methyl]hydrazone (9CI) (CA INDEX NAME)



30 122877-89-1 CAPLUS

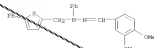
CH Benzaldehyde, 4-(diethylamino)-, (4-methoxyphenyl)-1-[(4-phenyl-2-
thienyl)methyl]hydrazone (9CI) (CA INDEX NAME)

119 ANSWER 214 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



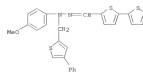
30 122877-89-3 CAPLUS

CH Benzaldehyde, 1,4-dimethoxy-, phenyl-1-[(5-phenyl-2-thienyl)methyl]hydrazone
(9CI) (CA INDEX NAME)



30 122877-89-3 CAPLUS

CH [2,2'-Bithiophene]-5-carboxaldehyde, (4-methoxyphenyl)-1-[(4-phenyl-2-
thienyl)methyl]hydrazone (9CI) (CA INDEX NAME)

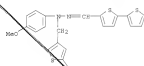


30 122877-92-7 CAPLUS

CH [2,2'-Bithiophene]-5-carboxaldehyde, (4-methoxyphenyl)-1-[(5-phenyl-2-
thienyl)methyl]hydrazone (9CI) (CA INDEX NAME)

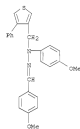
119 ANSWER 214 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

thienyl)methyl]hydrazone (9CI) (CA INDEX NAME)



30 122877-22-6 CAPLUS

CH Benzaldehyde, 4-(diethylamino)-, (4-methoxyphenyl)-1-[(4-phenyl-2-
thienyl)methyl]hydrazone (9CI) (CA INDEX NAME)



119 ANSWER 215 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 11914846 CAPLUS

DOCUMENT NUMBER: 1115846

TITLE: Soluble high-temperature polymers containing a

tetraphenylthiophene unit

AUTHOR(S): Imai, Yoshio; Nakamoto, Masaki

COOPERATE SOURCE: Imp. Org. Polym. Mater., Tokyo Inst. Technol., Tokyo,

152, Japan

SOURCE: Polymer-Plastics Technology and Engineering (1989),

28(4), 271-414

CODEN: PPTZC7; ISSN: 0360-2559

JOURNAL

DOCUMENT TYPE:

LANGUAGE: English

AB The title polymers were prepared using 4 types tetraphenylthiophene

monomers

diamine, dicyanate, diacyl chloride, and diisocyanate. Aromatic

polyimides and copolyimides were prepared by reaction of tetraphenylthiophenediamine

(I) or tetraphenylthiophene dicyanate (II) with tetracarboxylic

diacid chlorides or diisocyanates. Aromatic polyimides and copolyimides

were obtained by reaction of I with diacyl chloride or

tetraphenylthiophenediamine (III) with diamine.

Aromatic polyimide-imides were prepared by reaction of I with

4-chloroformylphthalic anhydride and of II with trimellitic anhydride. The reaction of III with

bisphenols and aminophenols gave aromatic polyesters and

polyamide-esters, resp. Aromatic polyacrylonitriles were prepared by reaction of I and

aldehydes.

All the polymers had high mol. weights, were soluble in organic solvents,

and had glass transition temp. of approx. 300°.

IT 97439-39-59 104909-92-49

R1: SW (Synthetic preparation); PREP (Preparation)

(Preparation and solubility and glass transition temperature of)

30 97439-39-5 CAPLUS

CH Poly[3,4-diphenyl-2,5-thiophenediyl-1,4-phenyleneacetylenylimino-1,4-
phenylene-1,4-phenyleneacetylenylimino-1,4-phenylene] (9CI) (CA INDEX
NAME)



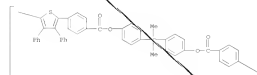
PAGE 3-A

119 ANSWER 215 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

120 104908-91-4 CAPLUS
 CD Poly[2,6-bis(4-phenyl-2,5-thiophenediyl)-1,4-phenyleneacetylenoxy-3,4-phenylene-methylidyne]-1,4-phenyleneacetylenoxy-1,4-phenylene (9CI) (CA INDEX NAME)

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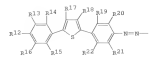
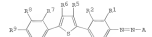
PAGE 1-B



119 ANSWER 216 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1989-222531 CAPLUS
 DOCUMENT NUMBER: 1101222531
 TITLE: Charge-generating azo photoconductor for electrophotographic plate
 INVENTOR(S): Nakamura, Yoichi; Furedo, Masami; Koshi, Nobuo
 PATENT ASSIGNER(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CDBR: JZQJAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 6316793	A	19890706	JP 1986-317041	19861225
PRIORITY APPL. INFO.:			JP 1986-317041	19861225

OTHER SOURCE(S): MARPAT 1101222531
 CI:



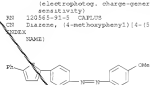
AB The electrophot. plate with improved sensitivity and stability has a photosensitive layer containing as a charge-generating photoconductor a

119 ANSWER 216 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

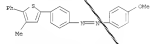
1-phenylthienylphenylazo deriv. of the formula I or phenylthienylphenylazido deriv. of the formula II (R1-R22 = H, halo, CH, alkyl, alkoxy, allyl, aryl, selenoaryl, amino, aryl, NO2, CN, etc., A = coupler residue which may be benzene deriv., Z = [1,1'-bis(phenyl)-4,4'-diyl] deriv.). The compd. (I; R1-R11 = H; A = 3-nitrophenyl) may be used as a charge-generating photoconductor for the electrophot. plate.

120 120545-91-3 120545-93-2 120546-01-4
 IT 120545-91-3 120545-93-2 120546-01-4
 RI: USES (Uses)
 (electrophot. charge-generating photoconductor, for improved sensitivity)

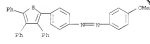
120 120545-91-3 CAPLUS
 CD Diazoene, [4-methoxyphenyl][4-(3-phenyl-2-thienylphenyl)- (9CI) (CA INDEX NAME)



120 120545-93-2 CAPLUS
 CD Diazoene, [4-methoxyphenyl][4-(4-methyl-1-phenyl-2-thienylphenyl)- (9CI) (CA INDEX NAME)



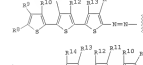
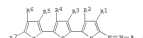
120 120546-01-4 CAPLUS
 CD Diazoene, [4-methoxyphenyl][4-(3,4,5-triphenyl-2-thienylphenyl)- (9CI) (CA INDEX NAME)



119 ANSWER 217 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1989-222530 CAPLUS
 DOCUMENT NUMBER: 1101222530
 TITLE: Charge-generating terthienylazo or terthienylazido photoconductor for electrophotographic plate
 INVENTOR(S): Nakamura, Yoichi; Furedo, Masami; Koshi, Nobuo
 PATENT ASSIGNER(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CDBR: JZQJAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 6316793	A	19890706	JP 1986-317040	19861225
PRIORITY APPL. INFO.:			JP 1986-317040	19861225

OTHER SOURCE(S): MARPAT 1101222530
 CI:



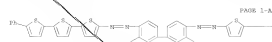
AB The electrophot. plate with improved sensitivity and stability has a photosensitive layer containing as a charge-generating photoconductor a 1 terthienylazo derivative of the formula I or terthienylazido derivative of the

formula II (R1-R4 = H, halo, CH, alkyl, alkoxy, allyl, aryl, selenoaryl, amino, aryl, NO2, CN, etc., A = coupler residue which may be benzene derivative; Z = [1,1'-bis(phenyl)-4,4'-diyl] derivative). The compound (I; R1-R7 = H; A = 3-nitrophenyl) may be used as a charge-generating photoconductor for the electrophot. plate.

120 120547-21-2
 RI: USES (Uses)
 (electrophot. charge-generating photoconductor, for improved sensitivity)

119 ANSWER 217 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 PH 120457-25-2 CAPLUS

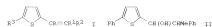
CH Diatene, 1,1'-(5,5'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis[2-(5'-phenyl[1,2,4'-oxadiazol-3-yl])-2-yl] (PCI) (CA INDEX NAME)



119 ANSWER 218 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 110154135
 DOCUMENT NUMBER: 110154135
 TITLE: Preparation of acaricidal aryl(arylthien-2-yl)ethenes
 INVENTOR(S): Buckart, Susan E.; Rodriguez, Cesar Roush, David M.; Phillips, Richard B.
 PATENT ASSIGNER(S): PNC Corp., USA
 SOURCE: 1,5, 6 pp
 CDBN: USCAAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4782467	A	19891228	US 1987-40180	19870609
PRIORITY APPL. INFO.:			US 1987-40180	19870609

OTHER SOURCE(S): CASREACT 110154135; MARPAT 110154135
 CI:



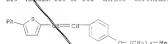
AB The title compounds [I, R, R1 = R, halo, alkyl, alkoxy, carbonyl, N(COOR)CH2CH2R1; R2, R3 = (un)substituted Ph, thienyl; I of R2, R3 = Ph, alkylphenyl] were prepared. 2-Bromothiophene was refluxed with PhNH2 in Et2O containing (Ph3PCEt)2CEt2-NEt3 to give 2-phenylthiophene which was stirred 2 h at -78° with BuLi to give after which PhCMe2OC was added and the mixture stirred 2 days at room temperature to give thienylpropenal.

IT The latter was refluxed 1.5 h with concentrated HCl to give I (R1 = Me, R2 = R3 = Ph) which gave 86 and 100% yield of phosphate-resistant and nonresistant Tetrahymena utiformis, resp., when sprayed at 50 ppm and maintained 48 h under UV light.

IT 118935-20-40
 RU 200 (Synthetic preparation); FEPE (Preparation of, as acaricide)

PH 118935-20-40 CAPLUS
 CN Thiophene, 2-[2-[4-(phenylthio)phenyl]ethenyl]-5-phenyl- (PCI) (CA INDEX NAME)

119 ANSWER 219 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



119 ANSWER 219 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 110144959
 DOCUMENT NUMBER: 110144959
 TITLE: Electrophotographic photoconceptors containing hydrazones as charge-transporting substances
 INVENTOR(S): Yamada, Yatsuyuki; Ito, Naoto; Nishizawa, Isao; Yamauchi, Tetsuhiro
 PATENT ASSIGNER(S): Nitel Toatsu Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CDBN: JFCAAM
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63204758	A	19880826	JP 1987-39132	19870224
PRIORITY APPL. INFO.:			JP 1987-39132	19870224

OTHER SOURCE(S): MARPAT 110144959

AB Electrophotog. photoconceptors have, on a conductive support, a photo-sensitive layer containing a hydrazone of the form Ph(C6H4CH2CH2)2-pi2 [I, R, R1 = (substituted) alkyl, (substituted) aryl, (substituted) aryl; R1 of them should be a (substituted) aryl] as a charge-transporting substance. The photoconceptors exhibit good sensitivity and durability. Thus, an Al substrate was coated with a composition containing a diazo compound and Nylon 200 (polyester resin) and overcoated with a composition containing I (R = Ph; R1 = Me) and Nylon 200 to give a photoconceptor which showed high sensitivity and excellent durability.

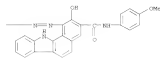
IT 116372-51-1
 RU 7M (Technical or engineered material use); USES (Uses)

CH 116372-51-1 CAPLUS
 CN 118-Memo[1]carbazole-3-carboxamide, 1,1'-(1,4-bis[phenyl-2,5-thiophenediyl]bis[4-(4-phenylmethoxy)bis[2-hydroxy-N-(4-methoxyphenyl)]-PCI) (CA INDEX NAME)

PAGE 1-A

112 ANSWER 112 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

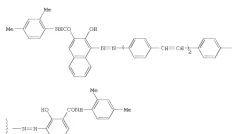
PAGE 108



112 ANSWER 210 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM

APPLICATION NUMBER: 1989-104968 CARLZE
 DOCUMENT NUMBER: 110:104968
 TITLE: Electrophotographic photosensitive layer with insulating layer and photoconductive layer on phenol resin substrate containing dispersed carbon
 INVENTOR(S): Asumasa, Tadashi; Takechi, Junko; Tokura, Yoshiko
 PATENT AGENT/REPRESENTATIVE(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Sgs. Kokai Tokyo Koho, 4 pp.
 CODE: 7503AF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63180963	A	19880726	JP 1987-11231	19870122
PRIORITY APPLN. INFO.			JP 1987-11231	19870122



AB Electrophotog. photoreceptors, having at least a charge-generating layer and a charge-transporting layer, are prepared by forming an insulating layer on a phenol resin substrate in which carbon is dispersed and then forming a charge-generating layer containing >10 weight % of type pigment thereon. The

119 ANSWER 220 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

photoreceptors exhibit good sensitivity and durability and are useful for copiers, laser printers and the like. Thus, a hardened resol type phenolic resin substrate in which carbon (20 wt.%) was dispersed was first coated with casein, then coated with a compo. contg. pigments I and Yulon 200 (polyester resin) (2:1 wt. ratio), and finally coated with a compo.

contg. a hydrazone compd. and Nylon 100 to give an electrophotog. photoreceptor.

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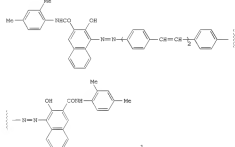
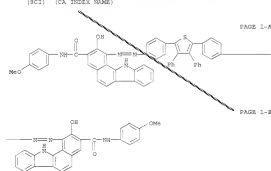
11 116372-51-1
12  RL: USGS (Uses)
13      (charge-generating agent, electrophoretog. photoreceptor containing)
14 116372-51-1 CAPLUS
15 116-Benzo[a]carbazole-3-carboxamide, 1,1'-[3,4-diphenyl-2,5-
16 thiophenediyl]bis[4-(4,1-phenyleneazo)]bis[2-hydroxy-N-(4-methoxyphenyl)-
17 (9CI)] (CA INDEX NAME)

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1.19 ANSWER 221 OF 250 CAPLOS COPYRIGHT 2007 ACS on STM

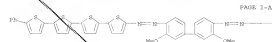
ACCESSION NUMBER:	1989:104961 CARLOS
DOCUMENT NUMBER:	1102104961
TITLE:	Electrophoretographic photoreceptors with charge-generating layer prepared from dispersion of azo-type pigments in alkylglycol acetate media
INVENTOR(S):	Akuzawa, Tadashi; Takeda, Junjo; Tokura, Yoshihiko
PATENT AGENT(S):	Mitsuru Tozawa Chemicals, Inc., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 5 pp.
	CODEN: JTKJAF
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 6317226	A	19880715	JP 1987-3354	19870112
PRIORITY APPLN. INFO.			JP 1987-3354	19870112



AB Electrophotographic photoreceptors consist of a charge-transporting layer and a 21 charge-generating layer prepared by coating an azo-type pigment dispersion in an alkylglycol acetate medium. The photoreceptors exhibit high sensitivity and durability, and are useful for electrophotographic copiers, laser printers, etc. Thus, an Al substrate was coated with a composition containing 1 (diaz pigment), Ekstratek S-100 (stearic acid mycoleride), Nylon 200 (polyamide resin), and cerium acetate and overcoated with a composition containing a charge-transporting material and Nylon.

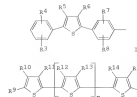
119 ANSWER 226 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 DI Diene, 1,1'-(3,3'-dimethoxy[1,3'-biphenyl]-4,4'-diyl)bis[2-(5''''-
 phenoxy[2,2',2'',2''',2''''-quaterthiophen]-5-yl)]- (9C1) (CA INDEX NUMS)



119 ANSWER 226 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1989166857 CAPLUS
 DOCUMENT NUMBER: 110166857
 TITLE: Electrochromic photoconductor having photosensitive layer containing hydrazone derivative
 INVENTOR(S): Fuchida, Masami; Nakamura, Nobuhiko; Koike, Noboru
 PATENT ASSIGNER(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 DOCUMENT TYPE: JCOBRI: JCOJAP
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

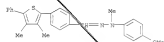
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63187448	A	1987-08-16	1987-16794	19870117
US 4861691	A	1989-05-23	US 1987-13712	19871212
PRIORITY APPL. INFO.			JP 1986-301650	19861212
			JP 1986-310176	19861219
			JP 1987-16764	19870117

OTHER SOURCE(S): MARPAT 110166857
 GI



AB The title photoconductor has a photosensitive layer containing di hydrazone derivative (R1,R2 = (substituted) alkyl, (substituted) aryl, (substituted) aralkyl; X = I or II (R3-R15 = H, halogen, OR, alkyl, alkoxy, allyl, carbonyl, acyl, ester, aryl, cyano, nitro, amino, alkyldiamino, arylamino; n = 1-5)). This hydrazone derivative is suited for use as a charge-transport material. An electrophotog. photoconductor using this hydrazone derivative shows improved pos. and neg. chargeability with improved sensitivity and durability.

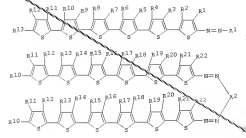
119 ANSWER 226 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)
 DI Diene, 1,1'-(3,3'-dimethoxy[1,3'-biphenyl]-4,4'-diyl)bis[2-(5''''-
 phenoxy[2,2',2'',2''',2''''-quaterthiophen]-5-yl)]- (9C1) (CA INDEX NUMS)



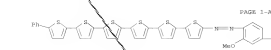
119 ANSWER 227 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1989111269 CAPLUS
 DOCUMENT NUMBER: 110111269
 TITLE: Electrochromic photoconductor having photosensitive layer containing azobenzene structure-containing azo derivative
 INVENTOR(S): Nakamura, Nobuhiko; Furuta, Masami; Koike, Noboru
 PATENT ASSIGNER(S): Fuji Electric Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 DOCUMENT TYPE: JCOBRI: JCOJAP
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63187448	A	1986-07-22	JP 1987-104837	19870110
PRIORITY APPL. INFO.			JP 1987-104837	19870110

OTHER SOURCE(S): MARPAT 110111269
 GI



119 ANSWER 227 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



119 ANSWER 228 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:519596 CAPLUS

109119596

DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNMENT(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY AC- NUM. COUNT:

PARENT INFORMATION:

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PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

WO 8707736

A1

198712217

MO 1987-JP253

19870604

W1 JP, KR, US

CH, IT, NL

EP 276695

A1

19890615

EP 1987-903740

19870604

EP 276695

B1

19940907

H1 CH, DE, FR, GB, IT, NL

C

19920609

CA 1987-538044

19870604

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1987102108

US 4808403

A

19890228

US 1987-110757

19870604

JP 04221246

A

19930603

JP 1993-400444

19930202

JP 05053046

B

19950609

JP 1986-129682

A

19860605

MO 1987-JP353

W

19870604

GI

[A-N=N-B]₁[B-N=N-A]₂

A-N=N-B

B-N=N-A

I

AB

An electrophoretic photoconductor having high sensitivity and excellent

durability is comprised of a photosensitive layer containing 21 of aro

compds. having a tetraphenylthiophene or tetraphenylthiophene-1,1-dioxide

skeleton as a charge-generating substance. The preferable aro compds.

are

represented by I [A = complex moiety; Q = S, SO₂; 1, n = 1, 0].

IT 116372-36-4 116372-45-5 116372-87-3

116372-93-1 116372-98-6 116372-01-4

119 ANSWER 229 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AL: USER (Name)

NO 116392-36-4 CAPLUS

CN 116392-36-4 CAPLUS

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CN 116392-36-4 CAPLUS

CN 116392-36-4 CAPLUS

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119 ANSWER 228 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER: 1989:519596 CAPLUS

109119596

DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNMENT(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY AC- NUM. COUNT:

PARENT INFORMATION:

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PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

WO 8707736

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W1 JP, KR, US

CH, IT, NL

EP 276695

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EP 1987-903740

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EP 276695

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JP 04221246

A

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JP 05053046

B

19950609

JP 1986-129682

A

19860605

MO 1987-JP353

W

19870604

GI

[A-N=N-B]₁[B-N=N-A]₂

A-N=N-B

B-N=N-A

I

AB

An electrophoretic photoconductor having high sensitivity and excellent

durability is comprised of a photosensitive layer containing 21 of aro

compds. having a tetraphenylthiophene or tetraphenylthiophene-1,1-dioxide

skeleton as a charge-generating substance. The preferable aro compds.

are

represented by I [A = complex moiety; Q = S, SO₂; 1, n = 1, 0].

IT 116372-36-4 116372-45-5 116372-87-3

116372-93-1 116372-98-6 116372-01-4

PAGE 1-A

PAGE 1-B

PAGE 1-C

PAGE 1-D

PAGE 1-E

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PAGE 1-N

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PAGE 1-Q

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PAGE 1-S

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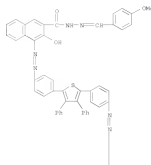
119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-B

OMe

XX 116372-87-3 CAPLOS
 CH 2-Naphthalenecarboxylic acid, 4,4'-[1,4-diphenyl-2,5-thiophenediyl]bis[4-(4,7-phenyleneoxy)bis[2-hydroxy-8-(4-methoxyphenyl)methylene]hydrazide] (PC1) (CA INDEX NAME)

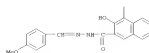
PAGE 1-A



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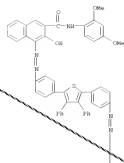
119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

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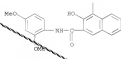
XX 116372-93-1 CAPLOS
 CH 2-Naphthalenecarboxamide, 4,4'-[1,4-diphenyl-2,5-thiophenediyl]bis[4-(4,7-phenyleneoxy)bis[2-hydroxy-8-(4-methoxyphenyl)-3-hydroxy-8-(4-methoxyphenyl)methylene]hydrazide] (PC1) (CA INDEX NAME)

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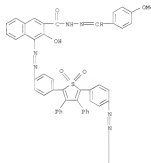
119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

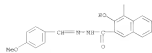


XX 116372-99-6 CAPLOS
 CH 2-Naphthalenecarboxylic acid, 4,4'-[1,4-diphenyl-2,5-thiophenediyl]bis[4-(4,7-phenyleneoxy)bis[2-hydroxy-8-(4-methoxyphenyl)methylene]hydrazide] (PC1) (CA INDEX NAME)

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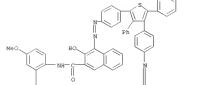
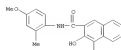
PAGE 2-A



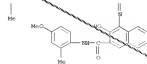
XX 116373-01-4 CAPLOS
 CH 2-Naphthalenecarboxamide, 4,4'-[1,4-diphenyl-2,5-thiophenediyl]bis[4-(4,7-phenyleneoxy)bis[2-hydroxy-8-(4-methoxyphenyl)-3-hydroxy-8-(4-methoxyphenyl)methylene]hydrazide] (PC1) (CA INDEX NAME)

119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

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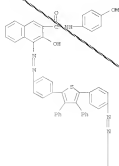


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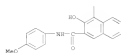


IT 108041-53-8P 116372-91-1P 116372-55-5P
 116372-58-8P 116372-46-8P 116372-70-4P
 116372-78-2P 116372-83-5P 116400-56-7P
 116400-58-9P 116400-59-0P
 EL: 81P (Synthetic preparation); PREP (Preparation)
 (Preparation and use of as charge-generating substance for electrophotography)
 CH 108041-53-8 CAPLOS
 CH 2-Naphthalenecarboxamide, 4,4'-[1,4-diphenyl-2,5-thiophenediyl]bis[4-(4,7-phenyleneoxy)bis[2-hydroxy-8-(4-methoxyphenyl)-3-hydroxy-8-(4-methoxyphenyl)methylene]hydrazide] (PC1) (CA INDEX NAME)

119 ANSWER 228 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
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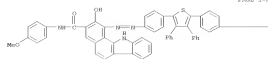


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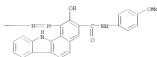


228 116372-51-1 CAPLUS
CN 118-Benzo[a]carbazole-3-carboxamide, 1,1'-[1,3,4-diphenyl-2,5-thiophenediyl]bis[4-(1-phenyleneazo)]bis[2-hydroxy-N-(4-methoxyphenyl)]-(PC1) (CA INDEX NAME)

119 ANSWER 228 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
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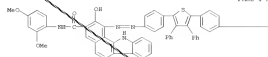


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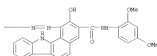


228 116372-55-5 CAPLUS
CN 118-Benzo[a]carbazole-3-carboxamide, 1,1'-[1,3,4-diphenyl-2,5-thiophenediyl]bis[4-(1-phenyleneazo)]bis[2-hydroxy-N-(2,4-dimethoxyphenyl)]-(PC1) (CA INDEX NAME)

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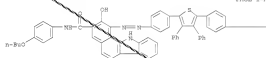


PAGE 1-B

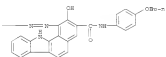


119 ANSWER 228 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
228 116372-58-8 CAPLUS
CN 118-Benzo[a]carbazole-3-carboxamide, 1,1'-[1,3,4-diphenyl-2,5-thiophenediyl]bis[4-(1-phenyleneazo)]bis[2-hydroxy-N-(4-butoxyphenyl)]-(PC1) (CA INDEX NAME)

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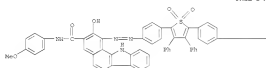


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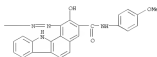


228 116372-66-8 CAPLUS
CN 118-Benzo[a]carbazole-3-carboxamide, 1,1'-[1,3,4-diphenyl-2,5-thiophenediyl]bis[4-(1-phenyleneazo)]bis[2-hydroxy-N-(4-methoxyphenyl)]-(PC1) (CA INDEX NAME)

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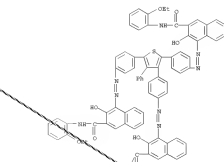
119 ANSWER 228 OF 250 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
PAGE 1-B



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228 116372-70-4 CAPLUS
CN 2-Naphthalene-1-carboxamide, 4,4',4''-[1,4-phenyl-2,5-thiophenediyl]tris[4-(1-phenyleneazo)]tris[2-hydroxy-N-(2-methoxyphenyl)]-(PC1) (CA INDEX NAME)

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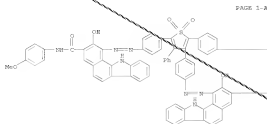


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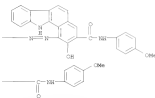


228 116372-78-2 CAPLUS

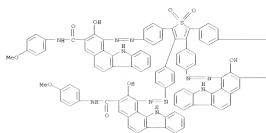
119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
 CN 118-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,3,4,5-thiophenetrayl]tetakis(4,1-phenyleneo)tris[2-hydroxy-N-(4-methoxyphenyl)-] (9CI) (CA INDEX NAME)



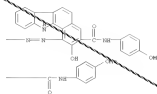
118-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,3,4,5-thiophenetrayl]tetakis(4,1-phenyleneo)tris[2-hydroxy-N-(4-methoxyphenyl)-] (9CI) (CA INDEX NAME)



119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)
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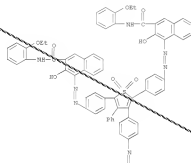
PAGE 1-B



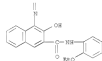
118-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,3,4,5-thiophenetrayl]tetakis(4,1-phenyleneo)tris[2-hydroxy-N-(4-methoxyphenyl)-] (9CI) (CA INDEX NAME)

119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

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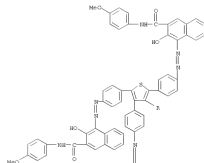
PAGE 2-A



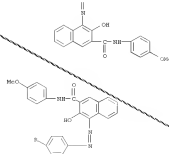
118-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,3,4,5-thiophenetrayl]tetakis(4,1-phenyleneo)tris[2-hydroxy-N-(4-methoxyphenyl)-] (9CI) (CA INDEX NAME)

119 ANSWER 228 OF 250 CAPLOS COPYRIGHT 2007 ACS on STN (Continued)

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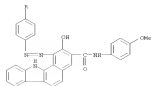
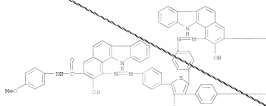
118-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,3-dioxido-2,3,4,5-thiophenetrayl]tetakis(4,1-phenyleneo)tris[2-hydroxy-N-(4-methoxyphenyl)-] (9CI) (CA INDEX NAME)

1.9 ANSWER 229 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

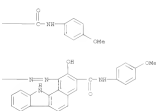
1.19 ANSWER 228 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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1.19 ANSWER 229 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER: 1998463322 CAPLUS

DOCUMENT NUMBER: 1998463322

TITLE: Composite organic electrophotographic photoconductor

INVENTOR(S): Takiguchi, Takao; Matsumoto, Masakazu; Kikuchi, Masahiro

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kohai Tokkyo Koho, 24 pp.

DOCUMENT TYPE: COBOL; JPOKAP

LANGUAGE: Patent

PARENT AC. NUM. COUNT: Japanese

PATENT INFORMATION: 1

PATENT NO.	INTL. DATE	APPLICATION NO.	DATE
JP 6216455	A	19871117	JP 1986-106752
JP 6712054	B	19931220	19860512
PRIORITY APPL. INFO.		JP 1986-106752	19860512

GI



AB A durable electrophotog. plate is claimed which comprises a composite layer consisting of a carrier-generating sublayer and a carrier-transporting sublayer, wherein the carrier-transporting layer contains a compound 1 (R¹, R², R³, R⁴ = (aralkyl, aryl, heterocyclic group).

1 R¹, R², R³, R⁴ bonded to (aralkyl, aryl, heterocyclic group).

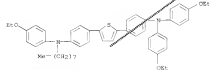
1T 114127-43-4 114127-45-6

1L US65 (Hess)

(carrier-transporting layer containing, for electrophotog. photoconductor)

20 114127-43-4 CAPLUS

20 Benzenamine, 4-[5-[4-[bis(4-ethoxyphenyl)amino]phenyl]-2-thienyl]-4-(4-ethoxyphenyl)-8-ethyl- (PCT) (CA INDEX NAME)

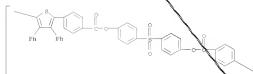


20 114127-43-6 CAPLUS

20 Benzenamine, N,N-bis[4-(4-ethoxyphenyl)-5-[4-(4-morpholinyl)phenyl]-2-

L19 ANSWER 230 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1989:435343 CAPLUS
 DOCUMENT NUMBER: 109:53743
 TITLE: Synthesis and characterization of aromatic polyesters containing tetraphenylthiophene unit
 AUTHOR(S): Mody, V. S.; Doshi, V.; Kakimoto, M.
 CORPORATE SOURCE: Cent. Mater. Sci. Technol., Indian Inst. Technol., Delhi 110 016, India
 SOURCE: Journal of Polymer Materials (1989), 5(1), 67-71
 CODEN: JOMPER, 1989, 0970-2838
 DOCUMENT TYPE: English
 LANGUAGE: English
 AB: Tetraphenylthiophene-based polymers were prepared by phase-transfer polycondensation of 2,5-bis[4-(chloromethyl)phenyl]-3,4-diphenylthiophene with 3-[4-(alkoxycarbonyl)-1,1,3-trimethyl-2-imidazolyl]-4,4'-sulfonyldiphenyl, or 4,4'-biphenyl. The polymers were characterized by IR, NMR, and inherent viscosity measurements. All polymers showed high decomposition temp. (>400°C) as determined by TGA.
 DT 111489-93-5p
 RI STN (Synthetic preparation); PREP (Preparation)
 [Preparation and characterization of]
 RI 111489-93-5 CAPLUS
 CN Poly[2,4-bis(phenyl)-2,5-thiophenediyl-3,4-phenyleneacarbonyloxy-1,4-phenyleneacarbonyloxy-1,4-phenyleneacarbonyloxy-1,4-phenylene] (PCL) (CA INDEX NAME)
 INDEX: NAME:

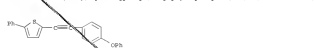
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L19 ANSWER 231 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1989:435870 CAPLUS
 DOCUMENT NUMBER: 109:53870
 TITLE: Preparation of 2-substituted ethynylthiophene amides and insecticides
 INVENTOR(S): Burkart, Susan Eileen Phillips, Richard Benton;
 Fennel,
 David Michael
 PATENT ASSIGNOR(S): FMC Corp., USA
 SOURCE: PCT Int. Appl., 35 pp.
 CODEN: FI6K52
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY NO. HUM. COUNT: 2
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 8920467 A1 19890218 WO 1987-08846 19870414
 Wt. AG, Bh, DM, JY, PB
 Mw, CH, DE, FR, GB, NL
 AU 8715446 A 19880210 AU 1987-75446 19870414
 CN 87123400 A 19880406 CN 1987-103400 19870507
 ZA 8728426 A 19880330 ZA 1987-5426 19870723
 FI 8728426 A 19880330 FI 1986-883640 A 19860723
 PRIORIT. APPL. INFO.:
 WO 1987-08846 A 19870414

L19 ANSWER 231 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L19 ANSWER 231 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 ACCESSION NUMBER: 1989:435870 CAPLUS
 DOCUMENT NUMBER: 109:53870
 TITLE: Preparation of 2-substituted ethynylthiophene amides and insecticides
 INVENTOR(S): Burkart, Susan Eileen Phillips, Richard Benton;
 Fennel,
 David Michael
 PATENT ASSIGNOR(S): FMC Corp., USA
 SOURCE: PCT Int. Appl., 35 pp.
 CODEN: FI6K52
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY NO. HUM. COUNT: 2
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 8920467 A1 19890218 WO 1987-08846 19870414
 Wt. AG, Bh, DM, JY, PB
 Mw, CH, DE, FR, GB, NL
 AU 8715446 A 19880210 AU 1987-75446 19870414
 CN 87123400 A 19880406 CN 1987-103400 19870507
 ZA 8728426 A 19880330 ZA 1987-5426 19870723
 FI 8728426 A 19880330 FI 1986-883640 A 19860723
 PRIORIT. APPL. INFO.:
 WO 1987-08846 A 19870414



OTHER SOURCE(S): MANSFAT 109:33870
 QT



AR The 2-ethynylthiophene deriva. 2 [R = phenylthienyl, (un)substituted Ph;
 R1 = H, alkyl; R2 = (un)substituted thienyl, (un)substituted Ph] are
 prepared as amides and insecticides. A solution of 2-formyl-2-
 phenylthiophene (preparation given) and di-R1
 14-(ethynylthiophen-2-yl)-2-ethoxy-2-(4-chlorophenyl)ethane, which was
 refluxed for 4 h with test-NaOH in THF, to give 1 [R = 4-ClC6H4; R1 = H,
 R2 = Ph] (II). 11 (50 ppm) totally controlled Tetanophes urticae on
 leaves segments.
 115219-74-4p 115219-75-5p
 RI STN (Synthetic preparation); PREP (Preparation)
 [Preparation of, as acaricide]
 RI 115219-74-4 CAPLUS
 CN Thiophene, 2-[[4-(2-ethoxyethoxy)phenyl]ethynyl]-5-phenyl- (PCL) (CA INDEX NAME)
 INDEX: NAME:

L19 ANSWER 233 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

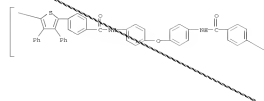
PAGE 1-B

L19 ANSWER 234 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1984-573279 CAPLUS
 DOCUMENT NUMBER: 1051173129
 TITLE: Polyamide oximes
 INVENTOR(S): Imai, Yoshio; Kakimoto, Masaki; Negi, Yuvraj; Shingh
 Tokyo Institute of Technology, Japan
 EXTENT ASSIGNED(S): Jpn. Kokai Tokkyo Koho, 6 pp.
 SOURCE: CORDI, JPACCEP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	FIRM	DATE	APPLICATION NO.	DATE
JP 61062523	A	1986-03-31	JP 1984-183831	1984-09-04
JP 01043777	B	1989-10-24		
PRIORITY APPL. INFO.:			JP 1984-103031	1984-09-04

AB Polyamides are prepared from derive of tetraphenylthiophene and diamines.
 The polyamides are soluble in organic solvents and have good heat resistance.
 Thus, a solution of 0.10 g 4,4'-oxydianiline in 1.5 mL AcOH was cooled to 0°, treated with 0.257 g 2,5-bis[4-(chloroformyl)phenyl]-3,4-diphenylthiophene and 0.2 mL AcOH, and stirred in an ice bath for 1.5 h to give a polyamide (78% yield) which was soluble in N-methyl-2-pyrrolidone and AcOH, had intrinsic viscosity [0.5 g/dL in EtOH at 30°] 0.90, and had 10% weight loss at 500° in air or 515° in N.
 IT 97429-35-3F
 RI 97429-35-3 CAPLUS
 CN Poly[3,4-diphenyl-2,5-thiophenediyl-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxycarbonyl-1,4-phenylene] (PCL) (CA INDEX NAME)

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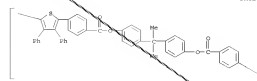


L19 ANSWER 234 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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L19 ANSWER 235 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1984-573132 CAPLUS
 DOCUMENT NUMBER: 1051731102
 TITLE: Synthesis and characterization of aromatic polyesters and poly(amide esters) from bisphenols and aromatic aminophenols, and 2,5-bis[4-(chloroformyl)-3,4-diphenylthiophene]
 AUTHOR(S): Kakimoto, Masaki; Negi, Yuvraj; Shingh, Imai, Yoshio
 Dpt. Text. Polym. Mater., Tokyo Inst. Technol., Tokyo, 152, Japan
 SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry, 24(7), 1511-17 (1986), JPACCEP; ISSN: 0887-624X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Polycondensation of 2,5-bis[4-(chloroformyl)phenyl]-3,4-diphenylthiophene (1) with various bisphenols afforded tetraphenylthiophene-containing aromatic polyesters by the interfacial or solution polycondensation method. Polyamide-esters were obtained from 2 and aminophenols by the interfacial technique. These polymers had inherent viscosities of 0.4-0.8 dL/g. All the polymers were readily soluble in various organic solvents, and could be cast into transparent and flexible films. Their glass transition temps. were in the range of 225-255°. These polymers did not weight loss below 600° in either air or N.
 IT 104909-02-4F
 RI 104909-02-4 CAPLUS
 CN Poly[3,4-diphenyl-2,5-thiophenediyl-1,4-phenyleneoxycarbonyl-1,4-phenylene(1-methylpyrrolidone)-1,4-phenyleneoxycarbonyl-1,4-phenylene] (PCL) (CA INDEX NAME)

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L19 ANSWER 235 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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L19 ANSWER 236 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1984.534489 CAPLUS
 DOCUMENT NUMBER: 1051134489
 TITLE: Tetraphenylthiophenedicarboxylic acid derivatives
 INVENTOR(S): Inai, Yoshio; Kakimoto, Masaaki; Negi, Yuwa; Singh
 TOKYO Institute of Technology, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CORD# 052624
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	FIRD	DATE	APPLICATION NO.	DATE
JP 61063672	A	1986-04-01	JP 1984-183832	1984-09-04
JP 01024152	B	1990-05-10		
PRIORITY APPL. INFO.			JP 1984-183832	1984-09-04

AB Title compds. (acid, acid halide, or ester deriv.) useful as materials for heat resistant resins with excellent moldability, are prepared by treating tetraphenylthiophene (I) with carboxylic acid halides over Friedel-Crafts reagents. Thus, treating II with AcCl in nitrobenzene

over $AlCl_3$ at room temperature for 2 h with stirring gave 614

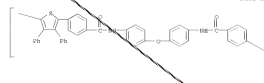
2,5-bis(4-acetoxylphenyl)-3,4-diphenylthiophene, which was then heated with NaOCl at 70° for 18 h to give 944 tetraphenylthiophenedicarboxylic acid.

IT 97429-39-5P RI: INF (Industrial manufacture); PREP (Preparation)

RI: 97429-39-5 CAPLUS (Manufacture of heat-resistant)

RI: Poly[3,4-diphenyl-2,5-thiophenediyl-1,4-phenyleneacarbonylimino-1,4-phenyleneoxy-1,4-phenyleneiminoacarbonyl-1,4-phenylene] (PCI) (CA INDEX NAME)

PAGE 1-A



L19 ANSWER 237 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

L19 ANSWER 237 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1985.654536 CAPLUS
 DOCUMENT NUMBER: 103154536
 TITLE: Synthesis and characterization of soluble aromatic polyamides derived from
 2,5-bis(4-chloroformylphenyl)-3,4-diphenylthiophene and aromatic diamines
 AUTHOR(S): Kakimoto, Masaaki; Negi, Yuwa; Singh Inai, Yoshio
 CORPORATE SOURCE: Dep. Text. Polym. Mater., Tokyo Inst. Technol., Tokyo,
 SOURCE: ISI, Japan
 Journal of Polymer Science, Polymer Chemistry Edition (1985), 23(6), 1787-95
 CORD# 051267 ISBN: 0449-296X
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB 2,5-bis(4-carboxyphenyl)-3,4-diphenylthiophene [97493-70-2], was synthesized either by the Friedel-Crafts reaction of tetraphenylthiophene (I) [1884-68-0] with oxalyl chloride, or by the Friedel-Crafts acylation of I followed by oxidation. The low temperature solution polycondensation

of 2,5-bis(4-chloroformylphenyl)-3,4-diphenylthiophene [97493-89-3] with various aromatic diamines in N,N-dimethylacetamide (DMF) afforded I-containing aromatic polyamides with inherent viscosities of 0.5-1.0 dL/g.

Copolyamides were obtained from a mixture of the diacid chloride and isophthaloyl or terephthaloyl chloride. All except 2 of the polyamides were readily soluble

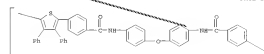
in amide-type solvents including II and were cast into transparent and flexible films. These polymers had glass transition at approx. 300°. Thermal stability of the polymer was evaluated by thermogravimetry, which showed no weight loss below 300° in both air and N₂ atm.

IT 97429-39-5P RI: 97429-39-5 CAPLUS (Synthetic preparation); PREP (Preparation)

RI: 97429-39-5 CAPLUS (Preparation of)

RI: Poly[3,4-diphenyl-2,5-thiophenediyl-1,4-phenyleneacarbonylimino-1,4-phenyleneoxy-1,4-phenyleneiminoacarbonyl-1,4-phenylene] (PCI) (CA INDEX NAME)

PAGE 1-A



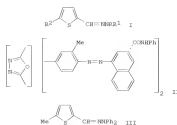
L19 ANSWER 237 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1--B

L19 ANSWER 238 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1985157989 CAPLUS
 DOCUMENT NUMBER: 1021157989
 TITLE: Electrophotographic photosensor
 PATENT ASSIGNOR(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59185341	A	19841020	JP 1983-59332	19830406
JP 64075497	B	19921201	JP 1983-59332	19830406

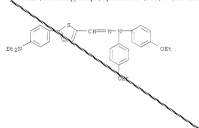
PRIORITY APPL. INFO.:
 GI



AB The electrophotographic photosensor contains a hydrazone derivative having the general formula I (R₁, R₂ = alkyl, aralkyl, aryl that may be substituted, but not alkyl simultaneously; R₂ = alkyl, aryl, substituted alkyl, alkoxy or aryl, halo) as a charge-transport substance. Thus, a color-coated Al plate was coated with EtOH solution of a diazo dye II 5 and butyral resin 29, to form the charge-generating layer. The charge-transport layer was formed by coating a composition containing III 5 and poly(4,4'-dicyanophenyl-2,2'-propanedicarbonyl) 5 g in CH₂Cl₂. Obtained photosensor was charged to -175 V, of which 98% was retained after 10 s. Sensitivity (for half decay of voltage) was 7.3 lx·s.

L19 ANSWER 239 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

23 55897-12-8
 RI (2562 Uses)
 (electrophotographic, charge-transport agents)
 23 55897-32-8 CAPLUS
 CH 2-Thiophenecarboxaldehyde, 5-[(4-diethylamino)phenyl]-,
 CH [4-(ethoxyphenyl)hydrazine (PCT) (CA 20264 30M6)



L19 ANSWER 239 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1993158117 CAPLUS
 DOCUMENT NUMBER: 99158117
 TITLE: Aminoarylolethane esters and their pharmaceutical formulation
 INVENTOR(S): Collington, Eric W.; Mallett, Peter; Wallis, Christopher J.; Macdonald, Alan; Hayes, Norman F.; Bradshaw, John; Carter, Malcolm
 PATENT ASSIGNOR(S): Glaxo Group Ltd., UK
 SOURCE: Eur. Pat. Appl., 74 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 74861	A1	19800323	EP 1980-204886	19800916
EP 74861	B1	19800927	EP 1980-204886	19800916
FR 8204138	A	19800327	FR 1980-4138	19800916
AG 8208459	A	19800324	AG 1980-88459	19800916
AO 561140	A	19800430	AO 1980-0430	19800916
JP 58074659	A	19800506	JP 1980-161554	19800916
SA 8206805	A	19800727	SA 1980-4805	19800916
BE 515761	A1	19801001	BE 1980-515761	19800916
US 4410521	A	19801018	US 1980-418975	19800916
CA 1189026	A	19800723	CA 1980-41565	19800916
AT 21635	T	19800915	AT 1980-204886	19800916
IL 67041	A	19800331	IL 1980-67041	19801021
PT 8203680	A	19800430	PT 1980-3680	19801021
PT 77242	B	19801031	PT 1980-77242	19801021
PT 77242	C	19801030	PT 1980-77242	19801021
US 4482549	A	19841113	US 1984-578014	19840208

PRIORITY APPL. INFO.:
 GI

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1981-32675	A	19811029	GB 1981-32675	19811029
GB 1982-12489	A	19820429	GB 1982-12489	19820429
GB 1982-13069	A	19820506	GB 1982-13069	19820506
EP 1982-204886	A	19800916	EP 1982-204886	19800916
US 1982-418975	A1	19800916	US 1982-418975	19800916
US 1983-510969	A1	19830705	US 1983-510969	19830705

OTHER SOURCE(S): MARPAT 99158117
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Approx. one-hundred and forty 1 (R = saturated 5-8 membered H heterocycle).

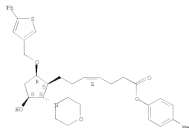
L19 ANSWER 239 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
optionally compg., a.g., O, S, Hz, R2, R2 = groups assoc. with
prostaglandins; K = O or H, R-OR, A = Cl-3 allylene; Q = CH₂,
CH₂CH₂ were prep'd. from known prostaglandin analogs or intermediates.
Typical of compds. prep'd. were II-IV.

11 10-27

RI: 10-27 (2007) SYN (Synthetic preparation); PREP (Preparation); NACT
(Reactant or reagent)
(preparation and reaction of)

RI: 10-27-2 CAPLUS
CH 4-septenic acid, 7-(3-hydroxy-2-(4-methoxyphenyl)-5-(15-phenyl-3-
thienylmethoxycyclopentyl)-, 4-methoxyphenyl ester,
[4411-29-14] (PCI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



11 10-27-2

RI: 10-27-2 (2007) SYN (Synthetic preparation); PREP (Preparation)
(preparation of)

RI: 10-27-2-1 CAPLUS
CH 4-septenic acid, 7-[2-(4-morpholinyl)-3-oxo-5-[(5-phenyl-3-
thienylmethoxycyclopentyl)-, 4-methoxyphenyl ester,
[4411-29-14] (PCI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

L19 ANSWER 240 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

ABSTRACT:

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

GI:

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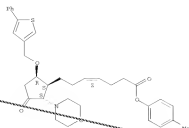
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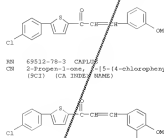
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L19 ANSWER 239 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L19 ANSWER 240 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RI: 69512-78-3 CAPLUS
CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3,4-dimethoxyphenyl)-
[9111-29-14] (CA INDEX NAME)



AB Chalcone analogs 1 (R = Ph, 3,4-(MeO)₂C₆H₃, R₁C₆H₄; R₂ = 4-Cl, 4-MeO, 4-Me, 3, and 4-OMe and -MeO) were prepared in 20.3-69.7% yield
with acetylating 2-(4-chlorophenyl)thiophene with Ac₂O containing Et₃N to
give 52.6% 2-acetyl-5-(4-chlorophenyl)thiophene, and condensing the latter
with the corresponding NMO in EtOH containing NaOH. 1 exist as mixts. of
s'-trans-s'-cis and s'-cis-s'-trans conformers, according to their IR
spectra. The C=O stretching frequencies of 1 correlated with the Hammett
σ constants of the substituents.

11 69512-78-3 CAPLUS

RI: 69512-78-3 (2007) SYN (Synthetic preparation); PREP (Preparation)
(preparation, IR spectrum and conformation of)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(4-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

RI: 69512-78-3 CAPLUS

CH 2-Propenyl-1-one, 2-[5-(4-chlorophenyl)-2-thienyl]-3-(3-methoxyphenyl)-
[9111-29-14] (CA INDEX NAME)

119 ANSWER 241 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1977:48484 CAPLUS
 DOCUMENT NUMBER: 87:0484
 TITLE: 1-[(2-Thienyl)-2-aminoethanol]
 INVENTOR(S): Bagli, Johan F.; Ferdinandi, Eckhardt
 PATENT ASSIGNEE(S): Amelabo, Bone Products Corp., USA
 SOURCE: U.S., 10 pp.
 COUNTRY: US388
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4024156	A	19770517	US 1975-549509	19750419
CA 1032146	A1	19780425	CA 1974-197896	19740419

PROSPECT APPL. INFO.:
 OTHER SOURCE(S): MARPAT 87:0484
 CI



I



II

AB Approx. thirty title compds., useful as β -sympatholytic and antihypertensive, were prepared. Theor. I with 3,4-Meo2C6H3CH2CH2NCH2CH2

IT 59160-37-3P 59160-51-3P
 RI: SPN (Synthetic preparation); PREP (Preparation)
 Preparation of, for use as antihypertensive and β -sympatholytic
 IN 59160-37-3 CAPLUS
 CH 2-Thiophenemethanol, α -[[[2-(3,4-dimethoxyphenyl)ethyl]amino]methyl]-5-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

119 ANSWER 242 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM
 ACCESSION NUMBER: 1976:48483 CAPLUS
 DOCUMENT NUMBER: 85:0483
 TITLE: Synthesis and antihypertensive activity of some thiophenylamines
 INVENTOR(S): Bagli, Johan F.; Mackay, Walter D.; Ferdinandi, Eckhardt; Cayne, Mitchell N.; Navas, Tony; Poppley, Thomas; Lippman, Wilbur
 CORPORATE SOURCE: Dep. Chem., Agniet Res. Lab., Montreal, QC, Can-82
 SOURCE: Journal of Medicinal Chemistry (1976), 19(7), 876-82
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CHEMABCT 85:28483
 CI



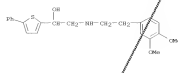
I

AB Synthesis of a series of thiophenylamines (I) having varying substituents on the thiophene ring and on the N atom is described using the general procedure reported earlier. Some of the derivs. showed marked

antihypertensive activity in the spontaneously hypertensive rat model. Some of these derivs. also antagonized α - and β -adrenoceptor activities. The ability of this class of compds. to inhibit catecholamine-induced release of free fatty acids by adipose tissue was demonstrated. Structure-activity relationships are discussed.

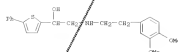
IT 59160-37-3P
 RI: SAC (Biological activity or effector, except adverse); SPN (Biological process); SPN (Biological study, unclassified); SPN (Synthetic preparation); TSD (Therapeutic use); BIOS (Biological study); PREP (Preparation); PROC (Process); URES (Uses)
 Preparation and pharmacol. of
 IN 59160-37-3 CAPLUS
 CH 2-Thiophenemethanol, α -[[[2-(3,4-dimethoxyphenyl)ethyl]amino]methyl]-5-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

119 ANSWER 241 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



● 9CI

IN 59160-55-3 CAPLUS
 CH 2-Thiophenemethanol, α -[[[2-(3,4-dimethoxyphenyl)ethyl]amino]methyl]-5-phenyl- (9CI) (CA INDEX NAME)

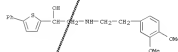


119 ANSWER 242 OF 250 CAPLUS COPYRIGHT 2007 ACS on STM (Continued)



● 9CI

IT 59160-55-3P
 RI: SPN (Synthetic preparation); PREP (Preparation)
 Preparation of
 IN 59160-55-3 CAPLUS
 CH 2-Thiophenemethanol, α -[[[2-(3,4-dimethoxyphenyl)ethyl]amino]methyl]-5-phenyl- (9CI) (CA INDEX NAME)

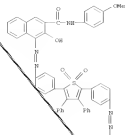


119 ANSWER 247 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 196217386 CAPLUS
 DOCUMENT NUMBER: 56167386
 ORIGINAL REFERENCE NO.: 56134749-9
 TITLE: Red azarothanthrone dyes. 1-Substituted
 3-oxo-2-alkyl-4-(1-alkylamino)-3-azabenzanthrone
 Sironi, Myron S.; Rogers, Jean B.
 CORPORATE SOURCE: Polysar Corp., Cambridge, MA
 SOURCE: Journal of Organic Chemistry (1962), 26, 4352-9
 CODEN: JOCXJ4 1962: 0272-5263
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB OF: CA 55, 3679b. 1-Alkyl dyes were prepared from
 N-chlorosuccinyl-1,4-
 bis(isopropylamino)anthraquinone (I). 1-chloro-2-oxo-3-isopropyl-4-
 isopropylamino-3-azabenzanthrone (II), and
 2-pyridino-1-oxo-3-isopropyl-4-
 isopropylamino-3-azabenzanthrone chloride (III). The 1-alkyl dyes are
 hydrolyzed by alkali to 1-hydroxy dyes, and are converted by NE3 to
 1-amino dyes. They are stable to concentrated HCl.
 1,4-Bis(isopropylamino)-
 anthraquinone (IV) was acetylated with Ac2O and NaOAc to give 84% of the
 N-ac derivative (V), n. 161.2° (THF-pet., ether R. 90-100°).
 Chloroacetylation of IV in CHCl3 gave 78% of n. 157.8° (alc.). V was
 refluxed 1/2 hr. in Me Cellosolve with KOH to give 87.5%
 2-oxo-1-isopropyl-4-isopropylamino-3-azabenzanthrone (VI), n.
 241-3° (alc.). Treatment of I with alkali gave different products
 depending on conditions. In acetone or EtOH, aqueous alkali at 60° for
 3/4 hr. gave 90-100% II, n. 184-5°. When the solvent was a
 water-miscible alic., the Cl was replaced at 100° by the alkyl
 group of the alic. giving 1-alkoxy dyes. At 100° the 1-hydroxy
 derivative was formed. Thus I heated 1/2 hr. at 60° with NaOH in EtOH
 gave 43-120% derivative (VII), n. 174-5°, of VI. VII was also prepared
 in 4% yield from II. Similarly, I and NaOH gave 78% NaO (VIII), n.
 182-3°, of VII. I and Me Cellosolve gave 83% of the NaOCECH2CO
 analog (IX), n. 158-9°, of VII. Spectra of VIII and IX were almost
 identical to that of VII. I, NaOH, and Me Cellosolve at reflux gave 97%
 of the 1-RO analog (X), n. 273-5° (acetone) of VII. X was also
 prepared in 54.5% yield from II. I was refluxed 1 hr. in Me Cellosolve
 with NaOH to give 43% yield of the 1-RO analog (XI), n. 278-3°, of
 VII. V was refluxed with pyridine 1/2 hr. to give 74% XII, n.
 235-5.5°. I heated 1 hr. at 125° with NaOH in EtOH
 gave 58% of the 1-RO analog, n. 275-3.5°, of II. II
 treated with NE3 and Cu in EtOH at 100° gave 22% VI. In acetone
 the products were 18-29, 18-1-oxo-4-isopropylaminoanthraquinone, and 7%
 of the 1-RO analog (XIII), n. 201-2°, of II. XIII was prepared in 100%
 yield (isolated) by heating I and NaOH in EtOH for 18 hr. at 100°.
 The 1-alkoxy dyes, and pyridinium salts are unstable in alkali or NE3.
 Heating VI with NaOH for 1 hr. at 60° (in alc.) gave 78% VI and 45%
 VII. Refluxing VII 1/2 hr. in water with NaOCECH2CO gave 83% VI. Refluxing
 VII in EtOH gave 54% XI. XI was reduced catalytically with PtO2 to give
 78% XII. XI was refluxed 21 hrs. in alc. with KOH to give 84% (crude) X.
 VII refluxed 3/2 hr. with alc. NaOH gave 53.5% X. IX heated 24 hrs. at
 100° with NE3 in alc. gave 71.5% XII.

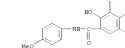
119 ANSWER 248 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 196217386 CAPLUS
 DOCUMENT NUMBER: 56167386
 ORIGINAL REFERENCE NO.: 56134545,130461,13047a-b
 TITLE: Utilization of polycyclic residues. VI. Azoic dyes
 from thionessal and thionessal 1,2-dioxide
 Fortuna, Lousy Montaudou, Giorgio
 CORPORATE SOURCE: Univ. Catania, Italy
 SOURCE: Annali di Chimica (Rome, Italy) (1962), 52, 95-9
 CODEN: ANCHAI 1962: 0370-5972
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB OF: CA 55, 9370f. Thionessal derivs. are prepared which are fast dyes
 for
 cotton, rayon, and nylon. 2,5-Bis(4-aminophenyl)-2,4-diphenylthiophene
 (I), 2-(4-aminophenyl)-3,4,5-triphenylthiophene 2,3-dioxide (II), and
 the
 1,1-dioxide (III) of I were diazotized or tetrazotized and coupled with
 naphthalene derivs. [amine, naphthalene, n.p. (1962)]. Maximum in H₂O
 and log ε in EtOH: I, 2-naphthol 119, 459
 (CHCl₃-EtOH), 520, 4.74; II naphthylamine, 255*, 500, 4.70; 3-
 naphthol ACMA C (IV), 324*, 572, 4.82; 1, naphthol ACMA PC (V),
 235*, 570, 4.74; 2, naphthol ACMA S (VII), 255* (petrole),
 549, 4.74; 3, naphthol ACMA F (VIII), 308*, 573, 4.70; 2,3, IV,
 325*, 527, 4.76; 2,3, V, 275*, 545, 4.76; 2,3, VI, 275*,
 235*, 563, 4.75; 2,3, VII, 244*, 562, 4.79; 2,3, VIII,
 234*, 565, 489; 2,3, IX, 269*, 565, 4.65; 2,3, X, 286*,
 545, 4.53; 2,3, VI, 244*, 543, 4.50; and 2,3, VIII, 295*, 544,
 4.50.
 IT 108043-53-8, 2-Naphtho-p-anisamide, 4,4'-[13,4-diphenyl-2,5-
 thiophenediyl]bis(p-phenyleneazo)bis(3-hydroxy-1-108041-54-9)
 1,5-Naphtho-p-anisamide, 4,4'-[13,4-diphenyl-2,5-thiophenediyl]bis(p-
 phenyleneazo)bis(3-hydroxy-1-7), 5,6-dioxide
 R.I. PREP (Preparation)
 (Preparation of)
 108041-53-8 CAPLUS
 2-Naphthalenecarboxamide, 4,4'-[13,4-diphenyl-2,5-thiophenediyl]bis(4,1-
 phenyleneazo)bis(3-hydroxy-N-(4-methoxyphenyl)-108041-54-9)
 (108041-54-9)

119 ANSWER 247 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 IT 108041-54-9, 2-Naphtho-p-anisamide, 4,4'-[13,4-diphenyl-2,5-
 thiophenediyl]bis(p-phenyleneazo)bis(3-hydroxy-1-7), 5,6-dioxide
 R.I. PREP (Preparation)
 (Preparation of)
 108041-54-9 CAPLUS
 2-Naphtho-p-anisamide, 4,4'-[13,4-diphenyl-2,5-thiophenediyl]bis(p-
 phenyleneazo)bis(3-hydroxy-1-7), 5,6-dioxide (7C1) (CA INDEX NAME)

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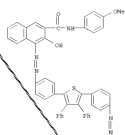


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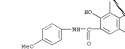


119 ANSWER 248 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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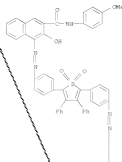
PAGE 2-A



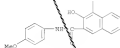
108041-54-9 CAPLUS
 2-Naphtho-p-anisamide, 4,4'-[13,4-diphenyl-2,5-thiophenediyl]bis(p-
 phenyleneazo)bis(3-hydroxy-1-7), 5,6-dioxide (7C1) (CA INDEX NAME)

119 ANSWER 249 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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119 ANSWER 249 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1962-67385 CAPLUS
 DOCUMENT NUMBER: 54-67385
 ORIGINAL REFERENCE NO.: 54-12044A
 TITLE: Ink for graphic reproduction containing a wetting element
 INVENTOR(S): Boillet, Emile
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

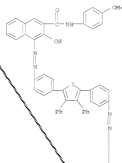
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 559482		19591116	IT	19571016
PRIORITY APPL. INFO.:			CH	

AB An ink is prepared, which is especially useful for offset printing, and comprises:
 a sep. wetting operation since it contains all necessary ingredients in a single product i.e. a wetting agent, especially glycerol, a binder, a coloring material which is H₂O-insol., and an emulsifier. Thus, a pigment (6) is mixed with glycerol (40), finished-oil varnish (50), and triethanolamine (4 parts).
 IT 100041-13-8
 (Derived from data in the 7th Collective Formula Index (1942-1946))

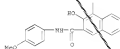
PH 100041-13-8 CAPLUS
 CH 2-Naphthalenecarboxamide, 6,6'-[1,3,4-diphenyl-2,5-thiophenediyl]bis(4,1-phenylene)bis[3-hydroxy-8-(4-methoxyphenyl)-] (9C1) ICA INDEX NAME

119 ANSWER 249 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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119 ANSWER 250 OF 250 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1939-11184 CAPLUS
 DOCUMENT NUMBER: 39-11840
 ORIGINAL REFERENCE NO.: 39-1724c-1,1716
 TITLE: Highly stylized compounds. VIII. Derivatives of tetraphenylthiophene. 2
 AUTHOR(S): Dillthey, W.; Giese, Emil
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1938), 151, 257-78
 CSDEN, JPCRD, ISSN: 0021-0293

DOCUMENT TYPE: Journal
 LANGUAGES: Unavailable
 AB of. C. A. 35, 579.3. Tetraphenylthiophene (I) (4. g.) and 1.5 g. KNO₃ in 80 cc. AcOH, heated on a boiling water bath and treated (with dialing) with a little more than the calculated amount of H₂SO₄, give 62% of the 2-(4-nitrophenyl) derivative (II), yellow, m. 179-180°; oxidation gives p-CH₃CH₄CO₂H, thus showing the position of the NO₂ group in the Ph nucleus. The position of the nitrophenyl group in I is (1), a, or b; cannot be determined directly but is inferred from the color reaction of the sulfones of the various derive, with MeOH in C₆H₆N. Reduction of II with SnCl₂ and gaseous HCl in AcOH gives the 2-(4-aminophenyl) derivative (III), m. 204-5°, the EtOH solution shows a blue fluorescence; concentrated H₂SO₄ gives an orange-yellow solution, changing to blue (after 24 h.) to violet. The diast. solution from III with HClO₄ gives a 4-4-tetraphenylthiophenedianionium perchlorate, golden yellow. III in C₆H₆N gives an Ar derivative, m. 258°, which gives a deep orange solution in concentrated H₂SO₄; with p-MeOC₆H₄CHO III yields the a-4-methoxy derivative of I, pale yellow, m. 201°; the halo-chromy in concentrated H₂SO₄ is red-yellowish brown (unstable). II in sulfatoacetic acid (from Ac₂O and concentrated EtOH at 80°) with H₂O-Ac₂O-AcOH gives the 1-dimethoxy derivative (IV), golden-yellow, m. 250°; this shows an intensive violet-red halo-chromy with MeOH in C₆H₆N. The production of the red color is dependent upon the presence of a NO₂ and a NO₂ group in the mole. The significance of this color reaction in relation to the constitution of these deriva.

is discussed at some length. With CS IV gives only H₂O and the p-NO₂ derivative I (5 g.) in 100 cc. AcOH, treated on a boiling water bath during 1 h. with 10 cc. HNO₃ and 10 cc. AcOH, gives a mixture of 60-5% of the a,a',4,4'-di-NO₂ derivative (V), m. 217-18°, and from the mother liquor 13-14% of the yellow a,a',4,4'-di-NO₂ derivative (VI), m. 167-70°; oxidation gives only p-CH₃CH₄CO₂H. V is reduced by SnCl₂ to 50-5% of the di-NO₂ derivative, m. 271°; concentrated H₂SO₄ gives an orange-red color, changing quickly to pale yellow and (after 24 h.) to violet. Di-NO₂ derivative, m. 224-5°, di-NO₂ derivative, m. 227°; dialkyl derivative, yellow, m. 261°. The diast. compound with p-CH₃CH₄CO₂H gives a dark red compound, C₆H₅SO₃Me, m. 287°; concentrated H₂SO₄ gives a dark blue color. H₂O₂ oxidizes V to the 1-dimethoxy derivative (VII), yellow, m. 294°; MeOH in C₆H₆N gives a red-violet color, stable to the addition of a little H₂O but precipitating VII on addition of

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 excess of H₂O; E₂O sp₂s. from the C₂H₅N soln. the compd. VII.MeO₂. VI
 is reduced to the *α*,*β*-4,4'-di-H₂ deriv., n. 220°. E₂O₂
 gives a pale yellow-orange soln., changing through pale yellow to violet
 (24 h.). 1-Dioxo deriv. of VI, n. 294°, MeO₂ is C₂H₅N gives a
 violet-red color. I with fuming HNO₃ at 0° yields a hexa-H₂O
 deriv., n. 284° (Fischer, Ann. 144, 192 (1867); believed this to
 be a tetra-H₂O deriv.). Nitration of II gives a mixt. of V and VI in
 about the same proportions as obtained from I. V with fuming HNO₃ in

AcOH gives a small yield of a tetra-H₂O deriv., n. 302°. Nitration of
 the sulfone of I gives a small yield of IV. [p-O₂N₂C₆H₄C₂H₂ with H₂O₂
 yields a sulfone, n. 259°; this gives a violet color with MeO₂ in
 C₂H₅N.
 Red (11-7)-5p, Aniline, N-allylidene-p-(3,4,5-triphenyl-2-thienyl)-
 Alk PEP (Preparation)

321 Red (11-7)-5 CAPLOS
 CH Aniline, N-allylidene-p-(3,4,5-triphenyl-2-thienyl)- (6C1) ICA INDEX
 (9062)

